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Data Report from the 1990 and 1991 Joint USSR-Canada Salmon Research Cruises to the North Pacific Ocean

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DATA REPORT FROM THE 1990 AND 1991 JOINT USSR-CANADA SALMON RESEARCH CRUISES TO THE NORTH PACIFIC OCEAN

by

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ABSTRACT

Morris, J. F. T., D. W. Welch, and O. A. Rassadnikov. 1992. Data report from the 1990 and 1991 joint USSR-Canada salmon research cruises to the north Pacific Ocean. Can. Data Rep. Fish. Aquat. Sci. 891: 175 p.

Joint USSR-Canada salmon surveys were conducted by rope trawl in the North Pacific from March 29 to April 21, 1990, and from April 23 to May 22, 1991. The biological data collected on these two cruises is presented, as well as a summary of the spatial distribution of salmon, the relationship between salmon abundance and sea surface temperature, and salmon size distributions.

RÉSUMÉ

Morris, J. F. T., D. W. Welch, and O. A. Rassadnikov. 1992. Data report from the 1990 and 1991 joint USSR-Canada salmon research cruises to the north Pacific Ocean. Can. Data Rep. Fish. Aquat. Sci. 891: 175 p.

Des équipes canado-soviétiques ont fait des relevés de saumons à la palangre dans le nord du Pacifique du 29 mars au 21 avril 1990 et du 23 avril au 22 mai 1991. On présente les données biologiques que les deux expéditions effectuées ont permis de recueillir, en plus d'un sommaire sur la distribution du saumon, sur la relation entre son abondance et la température à la surface de la mer et, enfin, sur la distribution des tailles.

INTRODUCTION

Joint USSR-Canada salmon surveys were conducted by rope trawl in the North Pacific from March 29 to April 21, 1990 (Welch et al, 1990), and from April 23 to May 22, 1991 (Morris et al, 1991).

Soviet and Canadian scientists jointly directed the 1990 cruise to the eastern North Pacific. The objective of this cruise was to establish the physical oceanographic factors defining the southern boundaries to the distribution of salmon on the high seas.

Soviet scientists directed the 1991 cruise which took place in the central and western North Pacific. The primary purpose of this cruise was to determine the abundance and distribution of salmon, and to relate these data to oceanographic conditions. The Canadian on board participated as an observer.

This report presents the biological data on Pacific salmon and other species that were collected on these two cruises. In addition, this report presents the results of some preliminary analysis on the spatial distribution of salmon, the relationship between salmon abundance and sea surface temperature, and salmon size distributions.

1. CRUISE TRACKS AND TRAWL STATIONS

Figure 1 shows the cruise tracks and trawl stations made by the R/V Tinro on the 1990 joint USSR-Canada high seas salmon cruise. The first leg of the cruise took place from March 29 to April 21 and consisted of 20 trawl stations along a line running southeast, just outside and roughly parallel to the boundary of Canada's EEZ. The second leg of the cruise took place from April 27 to May 14 and consisted of 42 trawl stations - two off the northwest tip of Vancouver Island, seven along the 52°N parallel from Cape St. James out to 150°W, and 33 stations along a series of north-south transects between 150°W and the 130°W.

The original plan for the second leg of the cruise called for sampling further south into the Japanese squid fishing zone. However, the southern extent of the planned north-south transects was reduced because of the rapid decline in pink (Oncorhynchus gorbuscha) and chum (O. keta) salmon abundances at approximately 43°N, where the 10.5°C isotherm was encountered along the first transect. Subsequent north-south transects were restricted in extent so that they more closely bracketed the 10.5°C isotherm in

an attempt to better define the upper thermal limit to salmon distributions.

Figure 2 shows the cruise track and trawl stations made by the R/V Tinro on the 1991 USSR-Canada cruise from April 23 to May 22. The cruise consisted of 82 trawl stations - 14 along a southwestern tack starting with trawl #107 at 49° 49.0'N, 163° 45.0'W and ending with trawl #120 at 45° 00.5'N, 173° 08.0'E, 12 along a northwestern tack ending with trawl #132 at 48° 31.7'N, 165° 01.0'E, and 56 trawl stations along the 165°E, 172°E, 174°E, 176°E, 178°E, 180°, 178°W, and 176°W longitudes. Trawl stations were spaced approximately every 30' latitude along these north-south tacks.

2. FISHING GEAR AND SAMPLING PROTOCOL

The USSR high seas research program uses a mid-water rope trawl to sample salmon. The specifications of the rope trawl assembly are as follows: head rope, 108 m; foot rope, 108 m; chain weight attached to foot rope; 250 kg; sixteen side ropes, 45 m each; length of trawl body, 64 m; bridle length, 150 m; trawl doors, 4.5 m; warp lengths, 250-450 m depending on tow depth; vertical mouth opening when towed at 5 knots, 40 m.

The trawl was towed at 5 knots for one hour at each station. During the day, the trawl was generally towed for two contiguous 30 minute periods at depths of 20 m and 40 m as measured from surface to head rope. However, trawling was sometimes restricted to a particular depth strata depending on echosounding information. At night, the trawl was towed within 10 m of the surface. This protocol followed standard Soviet practice.

CTD casts were conducted at most stations to obtain vertical profiles to 500 m of temperature, salinity, oxygen, and chlorophyll concentrations.

3. SALMON AND POMFRET SPATIAL DISTRIBUTIONS

Figures 3a-f show the distribution of salmon and pomfret (Brama japonica) during the 1990 cruise. Relatively high pink salmon catches occurred between 40°N and 50°N, and no pink salmon were caught at the southern and northern extremes of the survey area. Chum salmon were caught as far south as 43° 22.7'N to the

west, but the southern limit of their distribution was further north in the eastern part of the survey area. No chum salmon were caught in the southern extremes of the north-south transects. Sockeye salmon (O. nerka) were only caught in northern waters above 48°N. Coho salmon (O. kisutch) catches were low except at trawl stations #96 and #97 in the eastern region of the survey area where 213 and 35 individuals were caught, respectively. Chinook salmon (O. tshawytscha) catches were low throughout the study area. Pomfret catches occurred in the southeast region of the survey area, south of 46°N. These figures suggest upper thermal limits to pink, chum, and sockeye salmon distributions and a lower thermal limit to the pomfret distribution within the survey area.

Figures 4a-e show the distribution of salmon on the 1991 cruise. Pink salmon catches were highest in the northeastern region of the survey area and none was caught at the southern extremes of the north-south transects east of 174°E. The reverse situation prevailed west of 170°E; pink salmon catches were highest in the south and none were caught in the north. High chum salmon catches occurred irregularly throughout the cruise, with no clear geographic trends. Sockeye salmon catches were much lower than pink and chum salmon, and were largely confined to the north. No sockeye salmon were caught in the southern part of the survey area east of 170°E, suggesting that high temperatures limited the southern distribution of sockeye salmon. Chinook and coho salmon catches were low and sporadic in the central region of the survey area, and were absent from catches taken from the western North Pacific.

4. SALMON ABUNDANCE IN RELATION TO SEA SURFACE TEMPERATURE

Scatter plots of salmon catch versus temperature (Figures 5a-c and 6a-c) indicate that in 1990 the upper thermal limit was ca. 10.5°C for pink and chum salmon, and ca. 8°C for sockeye salmon. In 1991, the upper thermal limit was ca. 8°C for pink salmon and ca. 6.5°C for sockeye salmon. The upper thermal limit for chum salmon was not reached. The chinook and coho salmon data were too limited to determine any relationship between temperature and distribution. In general, a better resolution of the upper thermal limits for pink, chum, and sockeye salmon could have been achieved on the 1991 cruise if the north-south transects had been extended further south into warmer waters.

5. SALMON SIZE DISTRIBUTIONS

Figures 7a-d and 8a-c show percent frequency histograms of pink, chum, sockeye, and coho salmon fork lengths for 1990 and 1991.

In 1990, pink salmon fork lengths were normally distributed with a mean of 349 mm and a standard deviation of 27 mm. Chum salmon fork lengths were bimodally distributed, ranging from 205 mm to 620 mm with two modes at 300 mm and 400 mm. Sockeye salmon fork lengths were also bimodally distributed, ranging from 195 mm to 570 mm with two modes at 300 mm and 450 mm. Coho salmon fork lengths were normally distributed with a mean of 461 mm and a standard deviation of 45 mm. The five chinook salmon caught ranged from 400 mm to 585 mm.

In 1991, pink salmon fork lengths were normally distributed with a mean of 381 mm and a standard deviation of 28 mm. Chum salmon fork lengths ranged from 245 mm to 650 mm, but 50% were less than 300 mm. Sockeye salmon fork lengths were again bimodally distributed, ranging from 215 mm to 560 mm with two modes at 300 and 400 mm. Coho salmon fork lengths ranged from 445 mm to 545 mm. Chinook salmon fork lengths ranged from 275 mm to 750 mm, but 17 of the 23 chinook salmon were less than 350 mm.

6. DATA

Tables 1 and 2 provide information for each trawl in 1990 and 1991, respectively, on the date, time, duration, location, sea surface temperature (°C), fishing depth (m), and the number of salmon and pomfret caught.

Tables 3 and 4 present the biological databases that were collected in 1990 and 1991, respectively. The records provide, for each fish captured, information on tow number, date, species, fork length (mm), sex, maturity, fish weight (g), stomach fullness, and the principal diet items.

The following species codes are used in the tables: 108, pink salmon; 112, chum salmon; 115, coho salmon; 118, sockeye salmon; 124, chinook salmon; 290, pomfret; 418, yellowtail rockfish (Sebastes flavidus); and 95C, squid spp.

Sex was recorded as (1) for male and (2) for female.

The following maturity index for salmonids was used in the tables: (1), individual eggs less than 2 mm in diameter; (2), individual eggs roughly 2-3 mm in diameter; (3), individual eggs roughly 3-4 mm in diameter; and (4), individual eggs greater than 4 mm in diameter, with salmon definitely maturing this year.

The stomach fullness index for salmonids ranges from (0) for empty to (4) for full.

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Morris, J. F. T., D. W. Welch, and O. A. Rassadnikov. 1991. Preliminary results from the 1991 joint USSR-Canadian research cruise to the North-west Pacific Ocean. 14 p. (Document submitted to the Annual Meeting of the International North Pacific Fisheries Commission, Tokyo, Japan, October 1991). Dept. of Fisheries and Oceans, Pacific Biological Station, Nanaimo, B.C. Canada V9R 5K6.

Welch, D. W., T. W. Gjernes, O. A. Rassadnikov, and A. Korolov. 1990. Upper thermal limits on the late spring distribution of Pacific salmon (Oncorhynchus spp.) in the Northeast Pacific. 17 p. (Documented submitted to the Annual Meeting of the International North Pacific Fisheries Commission, Vancouver, B.C., Canada, November, 1990). Dept. of Fisheries and Oceans, Pacific Biological Station, Nanaimo, B.C. Canada V9R 5K6.

Table 1. Catch summary at each trawl location on the 1990 R/V Tinro cruise.

TRAWL	DATE	START TIME	END TIME	MIN	START LOCATION	END LOCATION	FISHING DEPTH	SST	PINK	CHUM	SOCKEYE	CHINOOK	COHO	POMFRET
81	06/04/90			60	55 00.1N 145 17.7W			4.2	0	0	0	1	0	0
82	07/04/90			60	54 37.8N 144 49.4W			4.4	0	0	0	0	0	0
83	07/04/90			60	54 11.7N 143 57.7W			4.7	0	2	13	0	0	0
84	08/04/90			60	53 35.0N 143 30.5W			4.9	0	2	4	0	0	0
85	08/04/90			60	53 08.8N 142 47.2W			5.2	0	5	4	0	0	0
86	09/04/90			60	52 47.6N 142 18.3W			5.2	0	2	6	1	0	0
87	16/04/90			60	52 29.6N 141 29.5W			5.7	0	0	2	0	0	0
88	16/04/90			60	52 09.1N 140 54.2W			6.1	0	0	0	0	0	0
89	16/04/90			60	51 49.0N 140 16.3W			6.2	0	11	9	0	0	0
90	17/04/90			60	51 19.5N 139 13.2W			6.5	0	1	0	0	2	0
91	17/04/90			60	50 52.2N 138 26.7W			6.8	0	0	0	0	0	0
92	17/04/90			60	50 39.6N 137 44.6W			7.0	0	1	3	0	0	0
93	18/04/90			60	50 03.3N 136 47.1W			7.0	0	44	2	0	1	0
94	18/04/90			60	49 38.0N 136 02.9W			7.6	0	1	0	0	0	0
95	18/04/90			60	49 09.9N 135 18.5W			7.9	7	8	1	0	0	0
96	19/04/90			60	48 37.4N 134 10.5W			8.0	76	91	15	0	213	0
97	19/04/90			60	48 10.0N 133 18.5W			8.8	5	3	0	0	35	0
98	19/04/90			60	47 47.2N 132 37.5W			8.8	168	58	54	0	3	0
99	20/04/90			60	47 22.5N 131 45.4W			9.7	30	7	0	0	1	0
100	20/04/90			60	47 00.8N 131 07.0W			9.3	1	7	0	0	1	0
101	27/04/90	0810	0910	60	49 59.7N 129 00.3W	50 02.2N 129 00.8W	20-40	9.0	0	0	0	0	0	0
102	27/04/90	1722	1822	60	50 39.9N 129 43.2W	50 42.4N 129 36.4W	20-40	7.9	0	0	0	0	0	0
103	28/04/90	0815	0915	60	51 48.5N 131 29.6W	51 44.5N 131 29.2W	20-40	8.0	0	0	0	0	0	0
104	28/04/90	1715	1815	60	51 58.8N 133 14.0W	51 58.8N 133 22.0W	20-40	8.2	0	5	0	0	0	0
105	29/04/90	0815	0915	60	52 01.2N 137 09.3W	52 01.1N 137 16.9W	20-40	7.3	1	23	4	0	1	0
106	29/04/90	1720	1820	60	52 02.0N 139 25.5W	52 02.0N 139 35.5W	20-40	7.0	2	3	15	0	2	0
107	30/04/90	0815	0915	60	51 59.7N 143 08.9W	51 59.7N 143 18.0W	20-40	6.1	0	1	5	0	0	0
108	30/04/90	1710	1810	60	51 59.8N 145 24.5W	51 59.8N 145 33.7W	20-40	6.4	1	0	10	0	0	0
109	01/05/90	1025	1125	60	51 58.6N 149 15.0W	51 54.3N 149 19.4W	20-40	5.5	0	1	1	0	0	0
110	01/05/90	1720	1820	60	51 09.7N 149 59.5W	51 04.9N 150 00.1W	20-40	5.9	0	1	1	0	0	0
111	02/05/90	0815	0915	60	48 49.8N 150 00.8W	48 44.7N 150 01.0W	20-40	6.7	0	18	0	2	1	0

Table 1 (continued).

TRAWL	DATE	START TIME	END TIME	MIN	START LOCATION	END LOCATION	FISHING DEPTH	SST	PINK	CHUM	SOCKEYE	CHINOOK	COHO	POMFRET
112	02/05/90	1715	1815	60	47 23.4N 149 58.5W	47 19.5N 150 00.0W	30	7.5	0	34	1	0	0	0
113	03/05/90	0815	0915	60	45 18.3N 150 00.7W	45 12.7N 149 57.4W	20	7.8	24	45	0	1	5	0
114	03/05/90	1715	1815	60	43 53.0N 150 00.6W	43 48.0N 149 59.9W	20-40	9.7	37	24	0	0	5	0
115	04/05/90	0815	0915	60	41 23.5N 150 00.0W	41 16.6N 150 00.0W	20-40	10.9	2	0	0	0	0	0
116	04/05/90	1710	1810	60	39 51.6N 150 00.0W	39 46.1N 150 00.0W	20-40	12.1	0	0	0	0	0	0
117	04/05/90	2300	2400	60	39 45.0N 149 08.1W	39 45.0N 149 00.4W	10	12.8	0	0	0	0	0	0
118	05/05/90	0815	0915	60	39 44.4N 147 18.8W	39 43.1N 147 11.8W	20-40	12.9	0	0	0	0	0	0
119	05/05/90	1810	1910	60	41 07.5N 147 12.2W	41 12.0N 147 12.2W	20-40	11.8	0	0	0	0	0	0
120	06/05/90	0820	0920	60	43 22.7N 147 12.2W	43 27.6N 147 12.1W	20	9.8	22	58	0	0	0	0
121	06/05/90	1715	1815	60	44 50.0N 147 50.0W	44 50.0N 146 59.2W	40	9.4	199	131	0	0	0	0
122	07/05/90	0815	0915	60	44 49.6N 143 29.1W	44 49.7N 143 22.2W	20-40	9.4	0	17	0	0	0	0
123	07/05/90	1225	1325	60	44 25.4N 143 20.1W	44 20.5N 143 20.1W	20-40	10.5	1	0	0	0	0	11
124	07/05/90	1715	1815	60	43 42.2N 143 20.9W	43 37.0N 143 20.6W	20-40	11.0	0	0	0	0	0	2
125	08/05/90	0815	0915	60	43 35.5N 140 51.2W	43 35.6N 140 44.3W	20-40	11.3	0	0	0	0	0	5
126	08/05/90	1405	1505	60	44 22.3N 140 35.4W	44 28.2N 140 35.6W	20-40	10.6	0	0	0	0	0	0
127	08/05/90	1910	2010	60	45 06.8N 140 34.6W	45 13.0N 140 34.4W	20-40	10.4	4	0	0	0	0	0
128	09/05/90	0815	0915	60	46 20.7N 140 35.8W	46 26.6N 140 37.1W	20-40	9.8	5	2	0	0	4	0
129	09/05/90	1745	1845	60	46 28.0N 138 25.8W	46 28.0N 138 17.1W	20-40	9.4	0	0	0	0	0	0
130	10/05/90	0850	0950	60	45 55.3N 138 18.4W	45 50.5N 138 17.8W	20-40	10.4	7	1	0	0	0	8
131	11/05/90	0815	0915	60	46 30.9N 136 33.8W	46 25.6N 136 33.2W	20-40	9.8	2	0	0	0	3	1
132	11/05/90	1315	1415	60	45 45.7N 136 35.3W	45 40.7N 136 35.4W	20-40	10.3	0	0	0	0	0	0
133	11/05/90	1740	1840	60	45 09.6N 136 36.3W	45 04.5N 136 36.3W	20-40	10.6	0	0	0	0	0	0
134	12/05/90	0815	0915	60	44 24.1N 136 45.0W	44 23.7N 136 36.5W	20-40	11.3	0	0	0	0	0	25
135	12/05/90	1317	1417	60	44 47.7N 136 01.5W	44 52.6N 136 00.8W	35	11.0	0	0	0	0	0	0
136	12/05/90	1740	1840	60	45 17.1N 135 59.8W	45 20.6N 135 55.0W	20-40	10.8	0	0	0	0	0	2
137	13/05/90	0820	0920	60	45 18.2N 134 07.3W	45 21.8N 134 03.2W	20-40	10.8	0	3	0	0	0	2
138	13/05/90	1225	1325	60	45 44.9N 134 00.2W	45 48.9N 133 55.3W	20-50	10.6	1	0	0	0	0	0
139	13/05/90	1710	1810	60	46 18.7N 133 52.2W	46 18.7N 133 44.7W	20-40	9.8	8	11	0	0	4	0
140	14/05/90	0815	0915	60	46 52.8N 131 56.6W	46 53.9N 131 47.1W	20-40	10.0	3	2	0	0	2	0
141	14/05/90	1320	1420	60	46 16.6N 131 42.8W	46 12.5N 131 38.2W	20-42	10.1	117	121	0	0	0	3
142	14/05/90	1710	1810	60	45 50.2N 131 36.4W	45 50.2N 131 29.2W	20-40	10.7	0	5	0	0	0	26

Table 2. Catch summary at each trawl location on the 1991 R/V Tinro cruise.

TRAWL	DATE	START TIME	END TIME	MIN	START LOCATION	END LOCATION	FISHING DEPTH	SST	PINK	CHUM	SOCKEYE	CHINOOK	COHO	POMFRET
107	23/04/91	1425	1525	60	49 49.0N 163 45.0W	49 47.5N 163 54.0W	40		2	0	1	0	0	0
108	25/04/91	0705	0805	60	48 33.3N 172 58.0W	48 29.5N 172 53.7W	35-40		56	0	0	0	0	0
109	25/04/91	1510	1610	60	48 06.0N 174 17.2W	48 01.2N 174 19.1W	40-45	4.5	8	0	0	0	0	0
110	25/04/91	2120	2220	60	47 48.0N 175 30.3W	47 46.8N 175 37.2W	5	4.6	50	18	0	0	0	0
111	26/04/91	0520	0620	60	47 30.1N 177 06.6W	47 25.2N 177 03.2W	0-20	4.2	116	3	1	1	0	0
112	26/04/91	1310	1410	60	47 10.6N 178 26.7W	47 04.7N 178 28.2W	55	4.8	88	0	0	0	0	0
113	26/04/91	2130	2230	60	46 42.0N 179 52.6W	46 37.4N 179 55.1W	0	4.8	47	92	17	0	0	0
114	28/04/91	0240	0340	60	46 29.2N 179 12.0E	46 29.2N 179 05.1E	5	4.6	33	15	9	0	0	0
115	28/04/91	0800	0900	60	46 20.0N 178 10.1E	46 15.5N 178 06.5E	40	4.5	123	0	1	0	0	0
116	28/04/91	1400	1500	60	46 04.4N 177 08.3E	46 00.0N 177 04.8E	40	4.7	6	0	3	0	0	0
117	28/04/91	1955	2055	60	45 48.8N 176 08.5E	45 45.1N 176 03.7E	10-20	4.4	9	0	2	0	0	0
118	29/04/91	0055	0155	60	45 32.1N 175 15.5E	45 30.6N 175 01.8E	0	4.4	9	23	1	0	0	0
119	29/04/91	0655	0755	60	45 16.2N 174 07.8E	45 16.3N 174 01.5E	20	4.6	15	2	6	0	0	0
120	29/04/91	1230	1330	60	45 00.5N 173 08.0E	45 00.1N 173 00.9E	35-40	4.1	4	0	0	0	0	0
121	29/04/91	2050	2150	60	45 27.6N 172 14.6E	45 24.3N 172 11.0E	40	5.3	0	1	2	0	0	0
122	30/04/91	0310	0410	60	45 43.1N 171 31.2E	45 37.1N 171 28.6E	5	3.9	13	3	0	0	0	0
123	30/04/91	0820	0920	60	46 07.1N 171 02.5E	46 02.5N 171 00.0E	40	3.5	0	2	0	0	0	0
124	01/05/91	0535	0635	60	46 17.6N 170 21.8E	46 20.8N 170 16.4E	5	3.8	5	0	0	0	0	0
125	01/05/91	0830	0930	60	46 37.1N 169 50.2E	46 35.4N 170 52.0E	40	3.8	0	0	0	0	0	0
126	01/05/91	1200	1300	60	46 51.0N 169 22.2E	46 53.6N 169 15.9E	30	3.7	0	3	0	0	0	0
127	01/05/91	1630	1730	60	47 08.0N 168 46.7E	47 11.3N 168 39.1E	30	3.3	0	7	9	0	0	0
128	01/05/91	2005	2105	60	47 15.3N 168 29.8E	47 20.2N 168 15.8E	15-20	3.3	0	0	0	0	0	0
129	02/05/91	0635	0725	60	47 49.6N 167 29.1E	47 55.8N 167 28.3E	20	3.1	0	4	3	0	0	0
130	02/05/91	1220	1320	60	48 07.2N 166 52.8E	48 12.2N 166 54.8E	20-50	2.6	0	0	0	0	0	0
131	02/05/91	2025	2125	60	48 25.5N 166 11.0E	48 20.0N 166 19.8E	10-20	2.6	0	0	0	0	0	0
132	03/05/91	0430	0530	60	48 31.7N 165 01.0E	48 36.4N 165 01.5E	5	3.0	0	0	1	0	0	0
133	03/05/91	1030	1130	60	47 59.2N 165 01.7E	47 57.9N 165 07.8E	40	2.6	0	0	0	0	0	0
134	03/05/91	1515	1615	60	47 29.2N 165 02.0E	47 27.1N 165 08.0E	40	3.3	1	5	26	0	0	0
135	03/05/91	2000	2100	60	46 52.0N 165 02.1E	46 56.2N 165 09.1E	20-40	3.4	0	0	1	0	0	0
136	03/05/91	2330	0030	60	46 36.5N 165 02.9E	46 31.8N 165 01.1E	0	3.5	15	13	33	0	0	0
137	04/05/91	0610	0710	60	45 58.6N 165 01.0E	45 53.0N 165 03.0E	10	3.6	16	0	0	0	0	0
138	04/05/91	0940	1040	60	45 34.6N 165 01.0E	45 29.8N 165 00.0E	35	4.0	2	0	0	0	0	0
139	04/05/91	1505	1605	60	44 59.5N 165 02.0E	44 57.7N 165 08.8E	30	4.7	31	0	2	0	0	0
140	04/05/91	2030	2130	60	44 29.6N 165 03.5E	44 28.8N 165 10.2E	20	4.9	48	0	0	0	0	0
141	05/05/91	0150	0250	60	43 59.0N 165 02.5E	43 56.3N 165 08.8E	5	5.2	62	1	8	0	0	0
142	05/05/91	----	ABORTED	TRAWL	----									
143	06/05/91	2350	0050	60	42 00.6N 171 55.5E	41 59.7N 172 02.1E	10	7.2	6	5	0	0	0	0
144	07/05/91	0630	0730	60	42 39.9N 171 51.4E	42 39.0N 172 03.1E	10-30	6.2	142	101	0	0	0	0
145	07/05/91	1335	1435	60	43 21.8N 172 03.0E	43 25.0N 172 08.3E	20-40	5.3	70	14	89	2	0	0
146	07/05/91	1905	2005	60	44 00.9N 172 01.7E	44 04.5N 172 07.5E	15-30	4.8	6	0	1	0	0	0
147	08/05/91	0055	0155	60	44 41.3N 172 01.8E	44 45.0N 172 00.8E	10	5.8	23	7	23	0	0	0

Table 2 (continued).

TRAWL	DATE	START TIME	END TIME	MIN	START LOCATION	END LOCATION	FISHING DEPTH	SST	PINK	CHUM	SOCKEYE	CHINOOK	COHO	POMFRET
148	08/05/91	0905	1005	60	45 26.4N 172 06.7E	45 31.5N 172 10.0E	30	5.7	81	16	122	0	0	0
149	08/05/91	1815	1915	60	46 20.0N 172 03.4E	46 21.7N 172 10.7E	30	3.8	32	0	0	0	0	0
150	09/05/91	0400	0500	60	47 00.0N 173 50.7E	47 00.0N 173 58.8E	5	3.9	27	3	9	0	0	0
151	09/05/91	1100	1200	60	47 28.3N 174 05.5E	47 26.6N 174 12.4E	40		127	1	0	0	0	0
152	09/05/91	2050	2150	60	46 25.0N 173 55.7E	46 20.7N 173 59.7E	10	3.8	14	1	0	1	0	0
153	10/05/91	0330	0430	60	45 37.2N 174 02.3E	45 32.3N 174 07.3E	5-10	4.0	92	11	0	0	0	0
154	10/05/91	0920	1020	60	44 46.7N 174 00.6E	44 41.3N 173 59.5E	40	6.4	17	1	5	0	1	0
155	10/05/91	1455	1555	60	44 04.6N 173 52.6E	44 01.4N 173 59.9E	30-45	6.2	209	0	0	0	0	0
156	10/05/91	2155	2255	60	43 17.5N 174 05.3E	43 15.0N 174 11.1E	5	7.3	0	0	0	0	0	0
157	11/05/91	0155	0255	60	43 00.0N 174 01.8E	43 00.0N 174 09.0E	5	7.4	0	2	0	0	0	0
158	11/05/91	1055	1200	60	42 21.8N 175 51.1E	42 20.4N 175 58.1E	30	7.6	0	244	0	0	0	0
159	11/05/91	1620	1720	60	42 56.4N 175 54.6E	42 59.8N 176 00.6E	30-40	7.1	18	12	0	2	3	0
160	11/05/91	2115	2215	60	43 33.3N 176 00.5E	43 38.6N 176 00.1E	0	6.8	0	0	0	0	0	0
161	12/05/91	0540	0640	60	44 22.0N 176 00.2E	44 27.5N 176 01.6E	0-20	5.8	8	3	0	0	1	0
162	12/05/91	0950	1050	60	44 55.1N 176 00.4E	45 00.4N 176 00.0E	30	5.0	5	3	16	0	0	0
163	12/05/91	2125	2225	60	46 13.9N 176 01.0E	46 18.9N 176 00.1E	0	4.4	17	11	3	0	0	0
164	13/05/91	0225	0325	60	46 53.4N 175 59.9E	46 58.4N 175 59.9E	0	4.5	91	4	2	0	0	0
165	13/05/91	1140	1240	60	47 27.1N 177 50.8E	47 29.1N 177 57.8E	45	4.3	100	0	0	0	0	0
166	13/05/91	1600	1700	60	47 05.7N 177 53.4E	47 01.8N 177 58.4E	40	4.5	23	0	0	0	0	0
167	14/05/90	0120	0220	60	45 45.0N 177 53.8E	45 41.2N 177 58.4E	10	4.8	188	25	5	0	0	0
168	14/05/91	0640	0740	60	45 04.9N 177 54.3E	45 01.2N 177 59.5E	30-35	6.1	6	0	0	0	0	0
169	14/09/91	1200	1300	60	44 24.9N 177 52.7E	44 21.5N 177 58.1E	40-60	7.0	14	1	0	4	0	0
170	14/05/91	1725	1825	60	43 45.2N 177 51.8E	43 42.1N 177 57.6E	30	8.0	4	12	0	8	1	0
171	14/05/91	2250	2350	60	43 06.9N 177 58.8E	43 01.9N 177 59.7E	0	8.0	0	0	0	0	0	0
172	15/05/91	0950	1050	60	42 42.4N 179 58.8E	42 47.5N 179 56.3E	30	7.6	0	31	0	2	5	0
173	15/05/91	1355	1455	60	43 15.2N 179 56.8E	43 19.3N 179 59.7E	30	7.3	1	25	0	3	3	0
174	15/05/91	1845	1945	60	43 54.0N 179 55.0W	44 00.2N 179 57.6W	30-35	7.1	0	4	0	0	2	0
175	16/05/91	2315	0015	60	44 33.2N 179 59.1W	44 37.8N 179 59.8W	5	7.2	0	0	0	0	0	0
176	16/05/91	0445	0545	60	45 12.2N 179 56.5E	45 17.2N 179 58.8E	0	6.9	11	1	0	0	0	0
177	16/05/91	----	ABORTED	TRAWL	----									
178	16/05/91	1745	1845	60	46 08.5N 179 46.5W	46 10.2N 179 37.9W	40	5.0	13	1	0	0	0	0
179	20/05/91	0110	0210	60	42 46.1N 177 59.8W	42 51.1N 177 59.8W	5	9.1	0	2	0	0	0	0
180	20/05/91	0425	0525	60	43 12.0N 178 00.0W	43 18.3N 178 00.0W	5	8.9	0	55	0	0	11	0
181	20/05/91	0910	1010	60	43 53.3N 178 00.0W	43 58.2N 178 00.0W	30	7.6	0	6	0	0	9	0
182	20/05/91	1405	1505	60	44 33.2N 178 00.0W	44 38.2N 178 00.0W	20-50	6.2	42	52	0	0	1	0
183	20/05/91	1815	1915	60	45 12.8N 178 00.3W	45 17.9N 177 59.8W	30	5.6	0	0	0	0	0	0
184	21/05/91	0045	0145	60	45 53.0N 178 00.0W	45 57.8N 178 00.0W	0-10	5.4	8	16	0	0	0	0
185	21/05/91	0540	0640	60	46 33.0N 178 00.3W	46 38.0N 178 00.1W	10	5.2	64	8	0	0	1	0
186	21/05/91	1025	1125	60	47 13.3N 178 00.0W	47 18.0N 178 00.0W	30	5.3	1	2	0	0	0	0
187	21/05/91	2050	2150	60	47 21.1N 176 01.7W	47 24.9N 176 06.5W	30	5.2	0	3	1	0	0	0
188	22/05/91	0720	0820	60	46 41.3N 176 00.9W	46 47.9N 176 00.0W	10-20	5.6	4	6	0	0	0	0
189	22/05/91	1700	1800	60	46 02.0N 175 59.4W	46 06.7N 175 55.0W	30-45	6.9	18	47	0	0	0	0

Table 3. Biological data collected on the 1990 R/V Tinro cruise.

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS	COMMENTS
81	900406	124	400						SPECIES CODE 124 = CHINOOK
83	900407	112	505						SPECIES CODE 112 = CHUM
83	900407	112	510						
83	900407	118	550						SPECIES CODE 118 = SOCKEYE
83	900407	118	530						
83	900407	118	455						
83	900407	118	570						
83	900407	118	440						
83	900407	118	480						
83	900407	118	470						
83	900407	118	450						
83	900407	118	455						
83	900407	118	470						
83	900407	118	415						
83	900407	118	420						
83	900407	118	530						
84	900408	112	590						
84	900408	112	460						
84	900408	118	435						
84	900408	118	505						
84	900408	118	475						
84	900408	118	420						
85	900408	112	470						
85	900408	112	465						
85	900408	112	505						
85	900408	112	400						
85	900408	112	450						
85	900408	118	410						
85	900408	118	400						
85	900408	118	425						
85	900408	118	395						
86	900409	112	390						
86	900409	112	410						
86	900409	118	440						
86	900409	118	435						
86	900409	118	400						
86	900409	118	420						
86	900409	118	395						
86	900409	118	420						
86	900409	124	420						
87	900416	118	455						
87	900416	118	445						
89	900416	112	415						

Table 3 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS	COMMENTS
89	900416	112	400						
89	900416	112	525						
89	900416	112	550						
89	900416	112	560						
89	900416	112	545						
89	900416	112	530						
89	900416	112	440						
89	900416	112	410						
89	900416	112	370						
89	900416	112	420						
89	900416	118	430						
89	900416	118	405						
89	900416	118	405						
89	900416	118	385						
89	900416	118	370						
89	900416	118	420						
89	900416	118	435						
89	900416	118	495						
89	900416	118	400						
90	900417	112	530						
90	900417	115	485						SPECIES CODE 115 = COHO
90	900417	115	430						
92	900417	112	505						
92	900417	118	510						
92	900417	118	490						
92	900417	118	460						
93	900418	112	410						
93	900418	112	415						
93	900418	112	405						
93	900418	112	480						
93	900418	112	430						
93	900418	112	455						
93	900418	112	410						
93	900418	112	450						
93	900418	112	415						
93	900418	112	485						
93	900418	112	400						
93	900418	112	405						
93	900418	112	270						
93	900418	112	410						
93	900418	112	485						
93	900418	112	525						
93	900418	112	495						

Table 3 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS	COMMENTS
93	900418	112	475						
93	900418	112	485						
93	900418	112	420						
93	900418	112	415						
93	900418	112	485						
93	900418	112	415						
93	900418	112	460						
93	900418	112	485						
93	900418	112	405						
93	900418	112	480						
93	900418	112	495						
93	900418	112	435						
93	900418	112	370						
93	900418	112	410						
93	900418	112	410						
93	900418	112	405						
93	900418	112	400						
93	900418	112	430						
93	900418	112	410						
93	900418	112	380						
93	900418	112	430						
93	900418	112	395						
93	900418	112	445						
93	900418	112	390						
93	900418	112	420						
93	900418	112	380						
93	900418	112	415						
93	900418	115	435						
93	900418	118	495						
93	900418	118	485						
94	900418	112	510						
95	900418	108	380						SPECIES CODE 108 = PINK
95	900418	108	395						
95	900418	108	365						
95	900418	108	390						
95	900418	108	325						
95	900418	108	300						
95	900418	108	280						
95	900418	112	435						
95	900418	112	435						
95	900418	112	445						
95	900418	112	450						
95	900418	112	490						

Table 3 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS	COMMENTS
95	900418	112	530						
95	900418	112	590						
95	900418	112	535						
95	900418	118	465						
96	900419	108	245						
96	900419	108	275						
96	900419	108	285						
96	900419	108	285						
96	900419	108	295						
96	900419	108	295						
96	900419	108	295						
96	900419	108	295						
96	900419	108	295						
96	900419	108	305						
96	900419	108	305						
96	900419	108	305						
96	900419	108	305						
96	900419	108	305						
96	900419	108	305						
96	900419	108	305						
96	900419	108	305						
96	900419	108	315						
96	900419	108	315						
96	900419	108	315						
96	900419	108	315						
96	900419	108	315						
96	900419	108	315						
96	900419	108	315						
96	900419	108	315						
96	900419	108	315						
96	900419	108	315						
96	900419	108	315						
96	900419	108	315						
96	900419	108	315						
96	900419	108	315						
96	900419	108	315						
96	900419	108	315						
96	900419	108	325						
96	900419	108	325						
96	900419	108	325						
96	900419	108	325						

Table 3 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS	COMMENTS
96	900419	108	325						
96	900419	108	325						
96	900419	108	325						
96	900419	108	325						
96	900419	108	325						
96	900419	108	325						
96	900419	108	325						
96	900419	108	325						
96	900419	108	325						
96	900419	108	335						
96	900419	108	335						
96	900419	108	335						
96	900419	108	335						
96	900419	108	335						
96	900419	108	335						
96	900419	108	335						
96	900419	108	335						
96	900419	108	335						
96	900419	108	335						
96	900419	108	335						
96	900419	108	335						
96	900419	108	335						
96	900419	108	345						
96	900419	108	355						
96	900419	108	355						
96	900419	108	355						
96	900419	108	355						
96	900419	108	355						
96	900419	108	355						
96	900419	108	355						
96	900419	108	365						
96	900419	108	365						
96	900419	108	375						
96	900419	108	375						
96	900419	108	375						
96	900419	108	385						
96	900419	108	385						
96	900419	108	435						
96	900419	112	235						
96	900419	112	245						
96	900419	112	245						
96	900419	112	245						
96	900419	112	245						
96	900419	112	255						

Table 3 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS	COMMENTS
96	900419	112	255						
96	900419	112	255						
96	900419	112	265						
96	900419	112	265						
96	900419	112	265						
96	900419	112	275						
96	900419	112	275						
96	900419	112	275						
96	900419	112	275						
96	900419	112	275						
96	900419	112	275						
96	900419	112	275						
96	900419	112	275						
96	900419	112	275						
96	900419	112	275						
96	900419	112	365						
96	900419	112	365						
96	900419	112	375						
96	900419	112	375						
96	900419	112	375						
96	900419	112	375						
96	900419	112	375						
96	900419	112	375						
96	900419	112	385						
96	900419	112	385						
96	900419	112	385						
96	900419	112	385						
96	900419	112	385						
96	900419	112	385						
96	900419	112	385						
96	900419	112	385						
96	900419	112	385						
96	900419	112	385						
96	900419	112	385						
96	900419	112	395						
96	900419	112	395						
96	900419	112	395						
96	900419	112	395						
96	900419	112	395						
96	900419	112	395						
96	900419	112	395						
96	900419	112	405						

Table 3 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS	COMMENTS
96	900419	112	405						
96	900419	112	405						
96	900419	112	405						
96	900419	112	405						
96	900419	112	405						
96	900419	112	415						
96	900419	112	415						
96	900419	112	415						
96	900419	112	415						
96	900419	112	415						
96	900419	112	415						
96	900419	112	415						
96	900419	112	415						
96	900419	112	415						
96	900419	112	425						
96	900419	112	425						
96	900419	112	425						
96	900419	112	425						
96	900419	112	425						
96	900419	112	425						
96	900419	112	425						
96	900419	112	425						
96	900419	112	435						
96	900419	112	445						
96	900419	112	445						
96	900419	112	445						
96	900419	112	455						
96	900419	112	455						
96	900419	112	465						
96	900419	112	465						
96	900419	112	465						
96	900419	112	465						
96	900419	112	465						
96	900419	112	465						
96	900419	112	465						
96	900419	112	475						
96	900419	112	475						
96	900419	112	495						
96	900419	112	495						
96	900419	112	495						
96	900419	112	525						
96	900419	115	315						

Table 3 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS	COMMENTS
96	900419	115	325						
96	900419	115	365						
96	900419	115	375						
96	900419	115	385						
96	900419	115	395						
96	900419	115	395						
96	900419	115	405						
96	900419	115	405						
96	900419	115	405						
96	900419	115	405						
96	900419	115	415						
96	900419	115	415						
96	900419	115	415						
96	900419	115	415						
96	900419	115	415						
96	900419	115	415						
96	900419	115	415						
96	900419	115	415						
96	900419	115	425						
96	900419	115	425						
96	900419	115	425						
96	900419	115	425						
96	900419	115	425						
96	900419	115	425						
96	900419	115	425						
96	900419	115	425						
96	900419	115	425						
96	900419	115	425						
96	900419	115	425						
96	900419	115	425						
96	900419	115	425						
96	900419	115	435						
96	900419	115	435						
96	900419	115	435						
96	900419	115	435						
96	900419	115	435						
96	900419	115	435						
96	900419	115	435						
96	900419	115	435						
96	900419	115	435						
96	900419	115	435						
96	900419	115	435						

Table 3 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS	COMMENTS
96	900419	115	435						
96	900419	115	435						
96	900419	115	435						
96	900419	115	435						
96	900419	115	435						
96	900419	115	435						
96	900419	115	435						
96	900419	115	435						
96	900419	115	445						
96	900419	115	445						
96	900419	115	445						
96	900419	115	445						
96	900419	115	445						
96	900419	115	445						
96	900419	115	445						
96	900419	115	445						
96	900419	115	445						
96	900419	115	445						
96	900419	115	445						
96	900419	115	445						
96	900419	115	445						
96	900419	115	445						
96	900419	115	445						
96	900419	115	445						
96	900419	115	445						
96	900419	115	445						
96	900419	115	445						
96	900419	115	445						
96	900419	115	445						
96	900419	115	455						
96	900419	115	455						
96	900419	115	455						
96	900419	115	455						
96	900419	115	455						
96	900419	115	455						
96	900419	115	455						
96	900419	115	455						
96	900419	115	455						
96	900419	115	455						
96	900419	115	455						
96	900419	115	455						

Table 3 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS	COMMENTS
96	900419	115	455						
96	900419	115	455						
96	900419	115	455						
96	900419	115	455						
96	900419	115	455						
96	900419	115	455						
96	900419	115	455						
96	900419	115	455						
96	900419	115	455						
96	900419	115	455						
96	900419	115	455						
96	900419	115	465						
96	900419	115	465						
96	900419	115	465						
96	900419	115	465						
96	900419	115	465						
96	900419	115	465						
96	900419	115	465						
96	900419	115	465						
96	900419	115	465						
96	900419	115	465						
96	900419	115	465						
96	900419	115	465						
96	900419	115	465						
96	900419	115	465						
96	900419	115	465						
96	900419	115	465						
96	900419	115	465						
96	900419	115	465						
96	900419	115	465						
96	900419	115	465						
96	900419	115	465						
96	900419	115	465						
96	900419	115	465						
96	900419	115	465						
96	900419	115	465						
96	900419	115	465						
96	900419	115	465						
96	900419	115	475						
96	900419	115	475						
96	900419	115	475						
96	900419	115	475						
96	900419	115	475						

Table 3 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS	COMMENTS
96	900419	115	475						
96	900419	115	475						
96	900419	115	475						
96	900419	115	475						
96	900419	115	475						
96	900419	115	475						
96	900419	115	475						
96	900419	115	475						
96	900419	115	475						
96	900419	115	475						
96	900419	115	475						
96	900419	115	475						
96	900419	115	475						
96	900419	115	475						
96	900419	115	475						
96	900419	115	475						
96	900419	115	475						
96	900419	115	475						
96	900419	115	475						
96	900419	115	475						
96	900419	115	475						
96	900419	115	475						
96	900419	115	475						
96	900419	115	475						
96	900419	115	475						
96	900419	115	475						
96	900419	115	485						
96	900419	115	485						
96	900419	115	485						
96	900419	115	485						
96	900419	115	485						
96	900419	115	485						
96	900419	115	485						
96	900419	115	485						
96	900419	115	485						
96	900419	115	485						
96	900419	115	485						
96	900419	115	485						
96	900419	115	485						

Table 3 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS	COMMENTS
96	900419	115	485						
96	900419	115	485						
96	900419	115	485						
96	900419	115	485						
96	900419	115	485						
96	900419	115	485						
96	900419	115	485						
96	900419	115	495						
96	900419	115	495						
96	900419	115	495						
96	900419	115	495						
96	900419	115	495						
96	900419	115	495						
96	900419	115	495						
96	900419	115	495						
96	900419	115	495						
96	900419	115	495						
96	900419	115	495						
96	900419	115	495						
96	900419	115	495						
96	900419	115	505						
96	900419	115	505						
96	900419	115	505						
96	900419	115	505						
96	900419	115	505						
96	900419	115	505						
96	900419	115	515						
96	900419	115	515						
96	900419	115	525						
96	900419	115	525						
96	900419	115	525						
96	900419	115	525						
96	900419	115	525						
96	900419	115	525						
96	900419	115	535						
96	900419	115	535						
96	900419	115	535						
96	900419	115	545						
96	900419	115	595						
96	900419	118	195						
96	900419	118	245						
96	900419	118	245						

Table 3 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS	COMMENTS
96	900419	118	255						
96	900419	118	255						
96	900419	118	255						
96	900419	118	265						
96	900419	118	265						
96	900419	118	265						
96	900419	118	265						
96	900419	118	275						
96	900419	118	275						
96	900419	118	305						
96	900419	118	305						
96	900419	118	315						
97	900419	108	355						
97	900419	108	340						
97	900419	108	305						
97	900419	108	310						
97	900419	108	335						
97	900419	112	480						
97	900419	112	460						
97	900419	112	380						
97	900419	115	385						
97	900419	115	385						
97	900419	115	395						
97	900419	115	405						
97	900419	115	405						
97	900419	115	425						
97	900419	115	425						
97	900419	115	425						
97	900419	115	425						
97	900419	115	425						
97	900419	115	425						
97	900419	115	435						
97	900419	115	435						
97	900419	115	435						
97	900419	115	435						
97	900419	115	435						
97	900419	115	445						
97	900419	115	445						
97	900419	115	455						
97	900419	115	465						
97	900419	115	465						
97	900419	115	465						
97	900419	115	475						

Table 3 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS	COMMENTS
97	900419	115	475						
97	900419	115	475						
97	900419	115	485						
97	900419	115	485						
97	900419	115	495						
97	900419	115	495						
97	900419	115	495						
97	900419	115	495						
97	900419	115	495						
97	900419	115	505						
97	900419	115	505						
97	900419	115	525						
98	900419	108	285						
98	900419	108	295						
98	900419	108	295						
98	900419	108	295						
98	900419	108	295						
98	900419	108	295						
98	900419	108	305						
98	900419	108	305						
98	900419	108	305						
98	900419	108	305						
98	900419	108	305						
98	900419	108	305						
98	900419	108	305						
98	900419	108	305						
98	900419	108	305						
98	900419	108	305						
98	900419	108	305						
98	900419	108	315						
98	900419	108	315						
98	900419	108	315						
98	900419	108	315						
98	900419	108	315						
98	900419	108	315						
98	900419	108	315						
98	900419	108	315						
98	900419	108	315						
98	900419	108	315						
98	900419	108	315						

Table 3 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS	COMMENTS
98	900419	108	315						
98	900419	108	315						
98	900419	108	315						
98	900419	108	325						
98	900419	108	325						
98	900419	108	325						
98	900419	108	325						
98	900419	108	325						
98	900419	108	325						
98	900419	108	325						
98	900419	108	325						
98	900419	108	325						
98	900419	108	335						
98	900419	108	335						
98	900419	108	335						
98	900419	108	335						
98	900419	108	335						
98	900419	108	335						
98	900419	108	365						
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							

Table 3 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS	COMMENTS
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							

Table 3 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS	COMMENTS
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							

Table 3 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS	COMMENTS
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	108							
98	900419	112	245						
98	900419	112	255						
98	900419	112	255						
98	900419	112	265						
98	900419	112	265						
98	900419	112	265						
98	900419	112	265						
98	900419	112	265						
98	900419	112	265						
98	900419	112	275						
98	900419	112	275						
98	900419	112	275						
98	900419	112	275						
98	900419	112	275						
98	900419	112	275						
98	900419	112	275						
98	900419	112	285						
98	900419	112	305						
98	900419	112	355						
98	900419	112	355						
98	900419	112	365						
98	900419	112	365						
98	900419	112	365						
98	900419	112	375						
98	900419	112	375						
98	900419	112	375						
98	900419	112	375						
98	900419	112	385						
98	900419	112	385						
98	900419	112	385						
98	900419	112	385						
98	900419	112	395						
98	900419	112	395						
98	900419	112	395						
98	900419	112	395						

Table 3 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS	COMMENTS
98	900419	112	395						
98	900419	112	395						
98	900419	112	395						
98	900419	112	395						
98	900419	112	405						
98	900419	112	405						
98	900419	112	405						
98	900419	112	405						
98	900419	112	405						
98	900419	112	405						
98	900419	112	415						
98	900419	112	415						
98	900419	112	415						
98	900419	112	415						
98	900419	112	415						
98	900419	112	415						
98	900419	112	435						
98	900419	112	435						
98	900419	112	455						
98	900419	112	465						
98	900419	112	495						
98	900419	112	495						
98	900419	112	525						
98	900419	118	245						
98	900419	118	255						
98	900419	118	255						
98	900419	118	265						
98	900419	118	265						
98	900419	118	265						
98	900419	118	265						
98	900419	118	265						
98	900419	118	265						
98	900419	118	265						
98	900419	118	265						
98	900419	118	265						
98	900419	118	265						
98	900419	118	265						
98	900419	118	265						
98	900419	118	265						
98	900419	118	265						
98	900419	118	265						
98	900419	118	265						
98	900419	118	265						
98	900419	118	265						

Table 3 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS	COMMENTS
98	900419	118	265						
98	900419	118	265						
98	900419	118	265						
98	900419	118	265						
98	900419	118	275						
98	900419	118	275						
98	900419	118	275						
98	900419	118	275						
98	900419	118	275						
98	900419	118	275						
98	900419	118	275						
98	900419	118	275						
98	900419	118	275						
98	900419	118	275						
98	900419	118	275						
98	900419	118	275						
98	900419	118	275						
98	900419	118	285						
98	900419	118	285						
98	900419	118	285						
98	900419	118	285						
98	900419	118	285						
98	900419	118	285						
98	900419	118	285						
98	900419	118	285						
98	900419	118	285						
98	900419	118	285						
98	900419	118	285						
98	900419	118	295						
98	900419	118	295						
98	900419	118	295						
98	900419	118	305						
98	900419	118	305						
98	900419	115	360						
98	900419	115	450						
98	900419	115	360						
99	900420	108	340						
99	900420	108	330						
99	900420	108	385						
99	900420	108	335						
99	900420	108	325						
99	900420	108	325						

Table 3 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS	COMMENTS
99	900420	108	335						
99	900420	108	305						
99	900420	108	415						
99	900420	108	330						
99	900420	108	310						
99	900420	108	330						
99	900420	108	330						
99	900420	108	320						
99	900420	108	305						
99	900420	108	385						
99	900420	108	290						
99	900420	108	360						
99	900420	108	300						
99	900420	108	340						
99	900420	108	305						
99	900420	108	310						
99	900420	108	340						
99	900420	108	320						
99	900420	108	310						
99	900420	108	325						
99	900420	108	310						
99	900420	108	265						
99	900420	108	315						
99	900420	108	360						
99	900420	112	380						
99	900420	112	380						
99	900420	112	370						
99	900420	112	455						
99	900420	112	375						
99	900420	112	280						
99	900420	112	270						
99	900420	115	480						
100	900420	108	345						
100	900420	112	380						
100	900420	112	365						
100	900420	112	430						
100	900420	112	400						
100	900420	112	385						
100	900420	112	380						
100	900420	112	410						
100	900420	115	435						
102	900427	418	490	2	5	1790	2		ROCKFISH
102	900427	418	465	2	5	1840	2		

Table 3 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS	COMMENTS
102	900427	418	500	2	6	2120	4		
102	900427	418	505	2	5	2630	2		
102	900427	95C	90						SQUID SPECIES
102	900427	95C	110						SIZES ARE MANTLE LENGTHS
102	900427	95C	110						
102	900427	95C	110						
103	900428	418	510	2	6	1920	3		
104	900428	112	580	2	2	2140			
104	900428	112	582	2	2	2170			
104	900428	112	620	2	2	2910			
104	900428	112	540	2	3	1800			
104	900428	112	590	2	2	2200			
105	900429	108	410	1	2	620			
105	900429	112	520	1	2	1470			
105	900429	112	535	2	2	1520			
105	900429	112	570	2	2	1970			
105	900429	112	430	2	2	800			
105	900429	112	470	1	2	1080			
105	900429	112	430	1	2	910			
105	900429	112	560	1	2	1910			
105	900429	112	470	2	2	1100			
105	900429	112	500	2	2	1200			
105	900429	112	500	2	2	1300			
105	900429	112	420	1	2	900			
105	900429	112	440	1	2	980			
105	900429	112	510	2	2	1400			
105	900429	112	550	2	3	1770			
105	900429	112	550	1	2	1740			
105	900429	112	445	1	2	1030			
105	900429	112	520	2	3	1560			
105	900429	112	430	2	2	940			
105	900429	112	490	1	2	1090			
105	900429	112	540	2	2	1610			
105	900429	112	505	1	2	1400			
105	900429	112	530	1	2	1370			
105	900429	112	520	2	2	1470			
105	900429	115	475	2	2	1170			
105	900429	118	430	2	2	970			
105	900429	118	430	1	2	965			
105	900429	118	460	2	2	1060		SQUID	
105	900429	118	510	1	2	1420			
106	900429	108	440	2		1050	3	PTEROPODA	
106	900429	108	440	1		1000	2	PTEROPODA	

Table 3 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS	COMMENTS
106	900429	112	480	2		1310	2	DIGESTED	
106	900429	112	510	2		1690	1	DIGESTED	
106	900429	112	530	2		1620	1	DIGESTED	
106	900429	115	450	2		1190	1	PTEROPODA	
106	900429	115	465	1		1270	2	SQUID	
106	900429	118	280	1		370	1		
106	900429	118	280	1		340	2	AMPHIPODA	
106	900429	118	260	2		330	3	AMPHIPODA	
106	900429	118	260	2		330	2	AMPHIPODA	
106	900429	118	265	2		335	2	AMPHIPODA	
106	900429	118	360	2		690	0		
106	900429	118	410	1		930	0		
106	900429	118	440	1		1070	0		
106	900429	118	510	1		1670	2	SQUID	
106	900429	118	410	2		920	0		
106	900429	118	400	2		770	1	?	
106	900429	118	370	2		690	1	CHAETOGNATHA	
106	900429	118	450	2		1150	2	SQUID	
106	900429	118	400	2		820	0		
106	900429	118	510	1		1640	2	SQUID	
107	900430	112	455	2	2	870	1	MEDUSAE	
107	900430	118	490	2	2	1160	2	SQUID	
107	900430	118	530	1	2	1555	0		
107	900430	118	480	2	2	1235	2	MEDUSAE	
107	900430	118	480	2	2	1235	3	SQUID	
107	900430	118	520	2	2	1630	3	SQUID	
108	900430	108	380	2	2	450	2	AMPHIPODA	
108	900430	118	500	1	2	1245	1	SQUID	
108	900430	118	410	1	2	650	0		
108	900430	118	400	1	2	650	2	AMPHIPODA	
108	900430	118	465	1	2	950	1	AMPHIPODA	
108	900430	118	460	1	2	930	1	AMPHIPODA	
108	900430	118	395	2	2	705	3	SQUID & AMPHIPODA	
108	900430	118	530	1	2	1600	2	SQUID & MEDUSAE	
108	900430	118	450	1	2	950	1	AMPHIPODA	
108	900430	118	430	2	2	810	2	AMPHIPODA	
108	900430	118	370	2	2	570	2	CHAETOGNATHA	
109	900501	112	575	1	2	2140	3	MEDUSAE	
109	900501	118	440	2	2	950	2	DIGESTED	
110	900501	112	515	2	2	1500	2	DIGESTED	
110	900501	118	550	1	2	1300	2	MEDUSAE	
111	900502	112	570	2	2	2120	3		
111	900502	112	550	1	2	1790	1		

Table 3 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS	COMMENTS
111	900502	112	400	2	2	620	1		
111	900502	112	470	1	2	1100	2		
111	900502	112	485	2	2	1040	1		
111	900502	112	470	2	2	1060	1		
111	900502	112	535	1	2	1590	1		
111	900502	112	510	1	2	1320	1		
111	900502	112	510	2	3	1340	1		
111	900502	112	510	2	2	1370	1		
111	900502	112	390	2	2	670	1		
111	900502	112	490	1	2	1220	1		
111	900502	112	490	1	2	1220	1		
111	900502	112	520	2	2	1280	1		
111	900502	112	500	1	2	1150	1		
111	900502	112	530	2	2	1520	1		
111	900502	112	390	1	2	600	2		
111	900502	112	530	2	2	1360	1		
111	900502	115	905	1	2	750	2	SQUID	
111	900502	124	420	1	2	950	2	SQUID	
111	900502	124	500	2	2	1500	2	SQUID	
112	900502	112	490	1	2	1260	2	MEDUSAE	
112	900502	112	430	1	2	780	2		
112	900502	112	490	1	2	930	1		
112	900502	112	550	1	2	1610	2	MEDUSAE	
112	900502	112	430	1	2	760	1		
112	900502	112	450	2	2	880	1		
112	900502	112	440	1	2	840	1		
112	900502	112	400	1	2	550	1	OIKOPLEURA	
112	900502	112	495	2	2	1270	1	OIKOPLEURA	
112	900502	112	470	2	2	970	1	OIKOPLEURA	
112	900502	112	470	1	2	970	1	OIKOPLEURA	
112	900502	112	415	1	2	660	1	OIKOPLEURA	
112	900502	112	380	2	2	560	1		
112	900502	112	435	2	2	750	2	OIKOPLEURA	
112	900502	112	460	1	2	1020	1	OIKOPLEURA	
112	900502	112	445	1	2	740	1	OIKOPLEURA	
112	900502	112	450	2	2	900	1		
112	900502	112	465	2	2	960	1		
112	900502	112	380	2	2	560	1		
112	900502	112	375	1	2	560	1		
112	900502	112	380	1	2	590	1		
112	900502	112	420	1	2	760	1		
112	900502	112	435	1	2	940	1		
112	900502	112	390	2	2	560	1		

Table 3 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS	COMMENTS
112	900502	112	445	1	2	1030	1		
112	900502	112	440	2	2	780	1	OIKOPLEURA	
112	900502	112	455	2	2	920	1		
112	900502	112	400	1	2	730	1		
112	900502	112	370	2	2	530	2		
112	900502	112	385	2	2	520	2	OIKOPLEURA	
112	900502	112	475	1	2	1050	1		
112	900502	112	405	2	2	720	1		
112	900502	112	440	1	2	890	1		
112	900502	112	370	1	2	490	2		
112	900502	118	390	2	2	700	1	AMPHIPODA	
113	900503	108	385	2	2	530	3		
113	900503	108	385	1	2	570	1	AMPHIPODA	
113	900503	108	365	1	2	520	1	AMPHIPODA	
113	900503	108	370	1	2	510	1	AMPHIPODA	
113	900503	108	380	2	2	550	0		
113	900503	108	405	2	2	670	3	AMPHIPODA	
113	900503	108	380	2	2	540	1	AMPHIPODA	
113	900503	108	365	1	2	510	1	AMPHIPODA	
113	900503	108	350	1	2	450	1	AMPHIPODA	
113	900503	108	355	2	2	470	1		
113	900503	108	355	2	2	470	2	AMPHIPODA	
113	900503	108	370	2	2	480	1	AMPHIPODA	
113	900503	108	390	2	3	570	3	AMPHIPODA	
113	900503	108	370	1	3	530	2	AMPHIPODA & CHAETOGNATHA	
113	900503	108	380	2	2	530	1	AMPHIPODA	
113	900503	108	330	2	2	400	1	AMPHIPODA	
113	900503	108	360	2	2	500	1	AMPHIPODA	
113	900503	108	320	1	2	340	1		
113	900503	108	390	1	2	585	1	AMPHIPODA	
113	900503	108	355	1	2	470	2	AMPHIPODA	
113	900503	108	335	1	2	400	1	AMPHIPODA	
113	900503	108	360	2	2	440	1	AMPHIPODA	
113	900503	108	380	1	2	580	1	AMPHIPODA	
113	900503	108	375	1	2	560	1	AMPHIPODA	
113	900503	112	430	2	2	750	1	MEDUSAE	
113	900503	112	410	2	2	680	0		
113	900503	112	395	2	2	560	0		
113	900503	112	380	1	2	520	0		
113	900503	112	410	2	2	610	1	AMPHIPODA	
113	900503	112	360	1	2	380	1	AMPHIPODA	
113	900503	112	265	2	2	200	1	AMPHIPODA	
113	900503	112	355	2	2	460	1	AMPHIPODA	

Table 3 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS	COMMENTS
113	900503	112	280	2	2	230	1	AMPHIPODA	
113	900503	112	390	1	2	550	1	AMPHIPODA	
113	900503	112	370	2	2	590	1	AMPHIPODA	
113	900503	112	400	1	2	625	0		
113	900503	112	410	2	2	610	0		
113	900503	112	285	1	2	230	1		
113	900503	112	285	2	2	220	1	AMPHIPODA	
113	900503	112	365	1	2	500	0		
113	900503	112	285	2	2	200	1	AMPHIPODA	
113	900503	112	420	1	2	700	1	AMPHIPODA	
113	900503	112	430	2	2	780	1	AMPHIPODA	
113	900503	112	450	2	2	850	1	AMPHIPODA	
113	900503	112	510	2	2	1070	1	AMPHIPODA 1 MEDUSAE	
113	900503	112	385	1	2	570	1	AMPHIPODA 1 MEDUSAE	
113	900503	112	395	2	2	570	1		
113	900503	112	465	1	2	860	0		
113	900503	112	380	2	2	575	2	AMPHIPODA MEDUSAE	
113	900503	112	405	1	2	680	1	AMPHIPODA	
113	900503	112	360	1	2	470	0		
113	900503	112	330	2	2	390	1	AMPHIPODA	
113	900503	112	435	1	2	800	1		
113	900503	112	400	1	2	660	1		
113	900503	112	400	2	2	660	1	AMPHIPODA	
113	900503	112	480	2	2	880	1	MEDUSAE	
113	900503	112	260	1	2	160	1	AMPHIPODA	
113	900503	112	340	2	2	400	1	AMPHIPODA	
113	900503	112	370	1	2	480	1	AMPHIPODA	
113	900503	112	395	1	2	540	0		
113	900503	112	410	2	2	580	1	AMPHIPODA	
113	900503	112	415	1	2	680	1		
113	900503	112	390	2	2	525	1		
113	900503	112	440	2	2	610	1	MEDUSAE	
113	900503	112	390	1	2	580	0		
113	900503	112	385	2	2	510	1	AMPHIPODA	
113	900503	112	350	1	2	410	0		
113	900503	112	290	1	2	230	2	AMPHIPODA	
113	900503	112	370	2	2	470	1	AMPHIPODA	
113	900503	115	450	2	2	1050	0		
113	900503	115	355	2	2	650	3	SQUID	
113	900503	115	445	2	2	1080	3	SQUID	
113	900503	115	420	2	2	850	3	SQUID	
113	900503	115	450	2	2	1180	2	FISH	
113	900503	124	585	2	2	2430	2	SQUID	

Table 3 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS	COMMENTS
114	900503	108	390	2	2	670	3	CHAETOGNATHA	
114	900503	108	370	2	2	550	3	CHAETOGNATHA	
114	900503	108	370	2	2	570	3	CHAETOGNATHA	
114	900503	108	400	1	2	660	2	AMPHIPODA	
114	900503	108	375	2	2	560	2	CHAETOGNATHA	
114	900503	108	360	2	2	570	3	CHAETOGNATHA	
114	900503	108	355	1	2	455	2	CHAETOGNATHA	
114	900503	108	360	1	2	500	3	CHAETOGNATHA AMPHIPODA	
114	900503	108	370	2	2	510	3	CHAETOGNATHA	
114	900503	108	320	2	2	355	2	CHAETOGNATHA AMPHIPODA	
114	900503	108	360	1	2	510	2	CHAETOGNATHA	
114	900503	108	360	1	2	470	3	CHAETOGNATHA	
114	900503	108	380	2	2	560	3	CHAETOGNATHA	
114	900503	108	360	1	2	470	3	CHAETOGNATHA	
114	900503	108	350	1	2	450	3	CHAETOGNATHA	
114	900503	108	390	2	2	570	3	CHAETOGNATHA	
114	900503	108	375	2	2	550	3	CHAETOGNATHA	
114	900503	108	370	1	2	540	3	CHAETOGNATHA	
114	900503	108	370	1	2	470	3	CHAETOGNATHA	
114	900503	108	380	1	2	520	3	CHAETOGNATHA	
114	900503	108	390	1	2	580	2	CHAETOGNATHA	
114	900503	108	370	2	2	560	4	CHAETOGNATHA	
114	900503	108	360	2	2	480	2	CHAETOGNATHA	
114	900503	108	380	2	2	560	2	CHAETOGNATHA	
114	900503	108	370	1	2	540	3	CHAETOGNATHA AMPHIPODA	
114	900503	108	355	1	2	510	4	CHAETOGNATHA	
114	900503	108	355	1	2	470	3	CHAETOGNATHA	
114	900503	108	360	1	2	530	2	CHAETOGNATHA	
114	900503	108	385	2	2	610	3	CHAETOGNATHA	
114	900503	108	350	1	2	450	2	CHAETOGNATHA	
114	900503	108	350	1	2	440	4	CHAETOGNATHA	
114	900503	108	395	2	2	650	3	CHAETOGNATHA	
114	900503	108	380	1	2	580	4	CHAETOGNATHA	
114	900503	108	365	2	2	510	2	CHAETOGNATHA	
114	900503	108	340	1	2	430	3	CHAETOGNATHA	
114	900503	108	330	1	2	380	2	CHAETOGNATHA	
114	900503	108	315	1	2	360	3	CHAETOGNATHA	
114	900503	112	305	1	2	500	1		
114	900503	112	380	2	2	510	1	CHAETOGNATHA	
114	900503	112	380	1	2	540	1		
114	900503	112	390	1	2	540	1	CHAETOGNATHA	
114	900503	112	330	1	2	360	2	CHAETOGNATHA AMPHIPODA	
114	900503	112	435	1	2	770	2	CHAETOGNATHA	

Table 3 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS	COMMENTS
114	900503	112	310	1	2	310	2	CHAETOGNATHA	
114	900503	112	300	1	2	280	2	CHAETOGNATHA AMPHIPODA	
114	900503	112	300	2	2	310	2	CHAETOGANTHA	
114	900503	112	290	1	2	250	1	CHAETOGNATHA	
114	900503	112	330	1	2	350	2	CHAETOGNATHA	
114	900503	112	305	2	2	300	1	CHAETOGNATHA	
114	900503	112	290	2	2	260	2	AMPHIPODA	
114	900503	112	275	2	2	240	1	CHAETOGNATHA	
114	900503	112	270	2	2	240	2	CHAETOGNATHA	
114	900503	112	265	2	2	210	2	CHAETOGNATHA	
114	900503	112	275	2	2	210	2	AMPHIPODA	
114	900503	112	295	1	2	270	1	CHAETOGNATHA	
114	900503	112	285	1	2	240	2	AMPHIPODA	
114	900503	112	300	1	2	270	1	CHAETOGNATHA	
114	900503	112	285	2	2	260	2	AMPHIPODA	
114	900503	112	310	2	2	325	2	CHAETOGNATHA	
114	900503	112	265	1	2	210	2	CHAETOGNATHA AMPHIPODA	
114	900503	112	283	1	2	260	2	CHAETOGNATHA	
114	900503	115	470	2	2	1110	2	SQUID	
114	900503	115	430	2	2	880	1	SQUID	
114	900503	115	420	2	2	810	3	YOUNG SQUID	
114	900503	115	430	1	2	850	2	YOUNG SQUID	
114	900503	115	415	2	2	750	2	SQUID	
115	900504	108	410	2	2	710	0		
115	900504	108	415	2	2	850	1	AMPHIPODA & FISH	
120	900506	108	365	2	2	470	0		
120	900506	108	355	1	2	430	1	AMPHIPODA	
120	900506	108	385	1	2	600	0		
120	900506	108	340	1	2	370	1	AMPHIPODA	
120	900506	108	370	2	2	500	1	AMPHIPODA	
120	900506	108	345	2	2	420	1	CHAETOGNATHA	
120	900506	108	360	1	2	430	1	AMPHIPODA	
120	900506	108	390	1	2	585	1	AMPHIPODA	
120	900506	108	345	1	2	400	0		
120	900506	108	350	2	2	430	1	AMPHIPODA	
120	900506	108	375	2	2	550	1	AMPHIPODA	
120	900506	108	375	2	2	530	0		
120	900506	108	355	1	2	440	0		
120	900506	108	380	1	2	500	0		
120	900506	108	350	1	2	450	0		
120	900506	108	345	1	2	420	1	AMPHIPODA	
120	900506	108	330	2	2	300	1	AMPHIPODA	
120	900506	108	325	1	2	360	1	AMPHIPODA	

Table 3 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS	COMMENTS
120	900506	108	350	2	2	415	0		
120	900506	108	345	2	2	410	1	AMPHIPODA	
120	900506	108	360	1	2	420	0		
120	900506	108	370	1	2	500	0		
120	900506	112	350	1	2	360	2	CHAETOGNATHA MEDUSAE	
120	900506	112	445	2	2	845	2	CHAETOGNATHA	
120	900506	112	415	1	2	700	1		
120	900506	112	390	1	2	600	2		
120	900506	112	355	1	2	420	1		
120	900506	112	400	2	2	650	1		
120	900506	112	310	2	2	270	1	AMPHIPODA	
120	900506	112	290	1	2	260	1	AMPHIPODA	
120	900506	112	295	1	2	280	2	CHAETOGNATHA	
120	900506	112	275	2	2	190	2	AMPHIPODA	
120	900506	112	300	2	2	280	1	AMPHIPODA	
120	900506	112	300	1	2	265	1	TUNICATA	
120	900506	112	290	1	2	270	1	AMPHIPODA	
120	900506	112	300	2	2	270	1	AMPHIPODA	
120	900506	112	310	2	2	300	1		
120	900506	112	300	1	2	270	1	AMPHIPODA	
120	900506	112	280	2	2	205	1	AMPHIPODA	
120	900506	112	300	1	2	280	1	AMPHIPODA	
120	900506	112	285	2	2	250	1	AMPHIPODA	
120	900506	112	255	1	2	260	0		
120	900506	112	300	1	2	270	1	AMPHIPODA	
120	900506	112	290	2	2	240	0		
120	900506	112	315	1	2	320	1	AMPHIPODA	
120	900506	112	285	1	2	250	1	AMPHIPODA	
120	900506	112	290	1	2	240	0		
120	900506	112	295	1	2	245	1	AMPHIPODA	
120	900506	112	315	1	2	270	1	AMPHIPODA	
120	900506	112	285	2	2	220	1	AMPHIPODA	
120	900506	112	280	1	2	215	1	AMPHIPODA	
120	900506	112	280	1	2	215	1	CHAETOGNATHA	
120	900506	112	305	1	2	260	0		
120	900506	112	290	2	2	255	1	CHAETOGNATHA	
120	900506	112	280	2	2	230	1	AMPHIPODA	
120	900506	112	275	2	2	200	1	AMPHIPODA	
120	900506	112	290	2	2	220	1	AMPHIPODA	
120	900506	112	290	2	2	250	1		
120	900506	112	300	2	2	270	0		
120	900506	112	300	2	2	275	1	AMPHIPODA	
120	900506	112	285	1	2	210	1	AMPHIPODA	

Table 3 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS	COMMENTS
120	900506	112	205	1	2	230	1	AMPHIPODA	
120	900506	112	300	2	2	265	0		
120	900506	112	290	1	2	250	1	AMPHIPODA	
120	900506	112	270	1	2	280	1	AMPHIPODA	
120	900506	112	290	1	2	255	0		
120	900506	112	290	2	2	230	1	AMPHIPODA	
120	900506	112	305	1	2	290	1	CHAETOGNATHA	
120	900506	112	310	2	2	280	1	AMPHIPODA	
120	900506	112	300	1	2	260	0		
120	900506	112	345	1	2	360	1	CHAETOGNATHA	
120	900506	112	290	1	2	230	1	AMPHIPODA	
120	900506	112	300			280			
120	900506	112	300			260			
120	900506	112	260			150			
120	900506	112	290			210			
120	900506	112	285			210			
120	900506	112	305			260			
120	900506	112	270			190			
120	900506	112	290			230			
121	900506	108	370						
121	900506	108	375						
121	900506	108	370						
121	900506	108	320						
121	900506	108	330						
121	900506	108	360						
121	900506	108	365						
121	900506	108	355						
121	900506	108	340						
121	900506	108	385	1	2	560	2	CHAETOGNATHA	
121	900506	108	350	1	2	410	3	CHAETOGNATHA PTERAPODA	
121	900506	108	360	2	2	510	3	CHAETOGNATHA	
121	900506	108	350	1	2	475	3	CHAETOGNATHA PTERAPODA	
121	900506	108	385	1	2	560	3	CHAETOGNATHA	
121	900506	108	350	1	2	440	4	CHAETOGNATHA	
121	900506	108	375	1	2	570	3	CHAETOGNATHA	
121	900506	108	380	1	2	560	3	CHAETOGNATHA	
121	900506	108	390	1	2	600	3	CHAETOGNATHA	
121	900506	108	360	2	2	450	3	CHAETOGNATHA	
121	900506	108	360	1	2	450	3	CHARTOGNATHA	
121	900506	108	325	1	2	330	3	CHAETOGNATHA	
121	900506	108	350	2	2	420	2	CHAETOGNATHA	
121	900506	108	365	2	2	470	3	CHAETOGNATHA	
121	900506	108	360	2	2	500	3	CHAETOGNATHA	

Table 3 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS	COMMENTS
121	900506	108	375	2	2	530	4	CHAETOGNATHA	
121	900506	108	385	2	2	500	2	AMPHIPODA	
121	900506	108	375	2	2	480	3	CHAETOGNATHA	
121	900506	108	345	1	2	400	3	CHAETOGNATHA	
121	900506	108	340	2	2	390	2	CHAETOGNATHA	
121	900506	108	360	2	2	460	2	?	
121	900506	108	380	2	2	580	2	CHAETOGNATHA	
121	900506	108	355	2	2	440	2	CHAETOGNATHA	
121	900506	108	375	2	2	530	3	CHAETOGNATHA	
121	900506	108	395	1	2	630	2	CHAETOGNATHA	
121	900506	108	365	1	2	460	2	CHAETOGNATHA	
121	900506	108	355	1	2	450	3	CHAETOGNATHA	
121	900506	108	350	1	2	430	4	CHAETOGNATHA	
121	900506	108	370	1	2	510	3	CHAETOGNATHA	
121	900506	108	365	2	2	480	3	CHAETOGNATHA	
121	900506	108	365	1	2	530	2	CHAETOGNATHA	
121	900506	108	400	2	2	640	2	AMPHIPODA PTERAPODA	
121	900506	108	380	2	2	520	3	CHAETOGNATHA	
121	900506	108	410	1	2	680	3	CHAETOGNATHA	
121	900506	108	355	2	2	500	3	CHAETOGNATHA	
121	900506	108	355	2	2	470	3	CHAETOGNATHA	
121	900506	108	335	2	2	400	2	CHAETOGNATHA	
121	900506	108	365	2	2	480	3	CHAETOGNATHA	
121	900506	108	360	1	2	480	2	CHAETOGNATHA	
121	900506	108	380	2	2	590	4	CHAETOGNATHA AMPHIPODA	
121	900506	108	360	2	2	490	3	CHAETOGNATHA	
121	900506	108	390	1	2	600	4	CHAETOGNATHA	
121	900506	108	360	2	2	460	4	CHAETOGNATHA	
121	900506	108	370	2	2	510	2	CHAETOGNATHA	
121	900506	108	385	2	2	580	2	CHAETOGNATHA	
121	900506	108	345	2	2	410	3	CHAETOGNATHA	
121	900506	108	350	1	2	420	3	CHAETOGNATHA	
121	900506	108	380	1	2	530	2	CHAETOGNATHA	
121	900506	108	325	1	2	360	2	CHAETOGNATHA	
121	900506	108	310	2	2	300	2	CHAETOGNATHA	
121	900506	108	360						
121	900506	108	330						
121	900506	108	350						
121	900506	108	365						
121	900506	108	345						
121	900506	108	375						
121	900506	108	340						
121	900506	108	345						

Table 3 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS	COMMENTS
121	900506	108	360						
121	900506	108	340						
121	900506	108	335						
121	900506	108	350						
121	900506	108	340						
121	900506	108	365						
121	900506	108	410						
121	900506	108	360						
121	900506	108	345						
121	900506	108	365						
121	900506	108	360						
121	900506	108	350						
121	900506	108	330						
121	900506	108	385						
121	900506	108	345						
121	900506	108	365						
121	900506	108	385						
121	900506	108	365						
121	900506	108	365						
121	900506	108	355						
121	900506	108	370						
121	900506	108	330						
121	900506	108	350						
121	900506	108	360						
121	900506	108	365						
121	900506	108	340						
121	900506	108	355						
121	900506	108	350						
121	900506	108	355						
121	900506	108	370						
121	900506	108	330						
121	900506	108	360						
121	900506	108	370						
121	900506	108	350						
121	900506	108	365						
121	900506	108	355						
121	900506	108	340						
121	900506	108	360						
121	900506	108	355						
121	900506	108	355						
121	900506	108	370						
121	900506	108	385						
121	900506	108	365						

Table 3 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS	COMMENTS
121	900506	108	350						
121	900506	108	365						
121	900506	108	360						
121	900506	108	345						
121	900506	108	385						
121	900506	108	335						
121	900506	108	355						
121	900506	108	345						
121	900506	108	360						
121	900506	108	350						
121	900506	108	390						
121	900506	108	375						
121	900506	108	360						
121	900506	108	365						
121	900506	108	365						
121	900506	108	380						
121	900506	108	365						
121	900506	108	355						
121	900506	108	370						
121	900506	108	365						
121	900506	108	370						
121	900506	108	340						
121	900506	108	360						
121	900506	108	365						
121	900506	108	340						
121	900506	108	355						
121	900506	108	360						
121	900506	108	355						
121	900506	108	355						
121	900506	108	290						
121	900506	108	425						
121	900506	108	380						
121	900506	108	350						
121	900506	108	365						
121	900506	108	375						
121	900506	108	375						
121	900506	108	365						
121	900506	108	355						
121	900506	108	385						
121	900506	108	360						
121	900506	108	335						
121	900506	108	370						
121	900506	108	380						

Table 3 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS	COMMENTS
121	900506	108	365						
121	900506	108	360						
121	900506	108	370						
121	900506	108	350						
121	900506	108	365						
121	900506	108	355						
121	900506	108	360						
121	900506	108	355						
121	900506	108	355						
121	900506	108	345						
121	900506	108	380						
121	900506	108	340						
121	900506	108	370						
121	900506	108	345						
121	900506	108	425						
121	900506	108	365						
121	900506	108	370						
121	900506	108	380						
121	900506	108	365						
121	900506	108	360						
121	900506	108	355						
121	900506	108	365						
121	900506	108	350						
121	900506	108	345						
121	900506	108	365						
121	900506	108	385						
121	900506	108	350						
121	900506	108	350						
121	900506	108	355						
121	900506	108	355						
121	900506	108	350						
121	900506	108	385						
121	900506	108	380						
121	900506	108	370						
121	900506	108	360						
121	900506	108	370						
121	900506	108	370						
121	900506	108	345						
121	900506	108	345						
121	900506	108	385						
121	900506	108	355						
121	900506	108	390						
121	900506	108	350						

Table 3 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS	COMMENTS
121	900506	108	345						
121	900506	108	350						
121	900506	108	365						
121	900506	112	380	2	2	610	0		
121	900506	112	440	1	2	800	1	PTEROPODA	
121	900506	112	360	1	2	470	2	CHAETOGNATHA	
121	900506	112	350	2	2	460	2	CHAETOGNATHA AMPHIPODA	
121	900506	112	400	1	2	670	2	AMPHIPODA	
121	900506	112	450	1	2	690	2	PTEROPODA	
121	900506	112	390	2	2	490	1	MEDUSAE	
121	900506	112	370	1	2	440	1	CHAETOGNATHA	
121	900506	112	370	2	2	520	2	CHAETOGNATHA	
121	900506	112	275	1	2	200	3	CHAETOGNATHA	
121	900506	112	380	2	2	480	2	CHAETOGNATHA	
121	900506	112	295	1	2	270	3	CHAETOGNATHA	
121	900506	112	290	1	2	250	2	CHAETOGNATHA	
121	900506	112	320	2	2	320	3	CHAETOGNATHA	
121	900506	112	285	2	2	230	2	CHAETOGNATHA	
121	900506	112	350	2	2	400	1	AMPHIPODA	
121	900506	112	380	2	2	460	2	CHAETOGNATHA AMPHIPODA	
121	900506	112	370	1	2	430	1	AMPHIPODA	
121	900506	112	300	1	2	250	2	CHAETOGNATHA	
121	900506	112	305	1	2	290	1	CHAETOGNATHA	
121	900506	112	300	1	2	270	2	AMPHIPODA	
121	900506	112	380	1	2	530	2	CHAETOGNATHA	
121	900506	112	290	1	2	240	2	CHAETOGNATHA	
121	900506	112	300	2	2	280	2	AMPHIPODA	
121	900506	112	305	2	2	290	2		
121	900506	112	310	2	2	310	2		
121	900506	112	375	2	2	510	1	AMPHIPODA	
121	900506	112	360	1	2	420	1	CHAETOGNATHA	
121	900506	112	370	1	2	460	2	AMPHIPODA	
121	900506	112	360	1	2	450	2	CHAETOGNATHA	
121	900506	112	360	2	2	420	1	CHAETOGNATHA AMPHIPODA	
121	900506	112	300	2	2	310	2	CHAETOGNATHA	
121	900506	112	285	1	2	210	1	AMPHIPODA	
121	900506	112	300	1	2	310	3	CHAETOGRATHA	
121	900506	112	300	1	2	270	3	CHAETOGRATHA	
121	900506	112	310	2	2	270	2	AMPHIPODA	
121	900506	112	295	2	2	280	2	CHAETOGNATHA	
121	900506	112	330	1	2	330	2	CHAETOGNATHA	
121	900506	112	290	1	2	240	2	CHAETOGNATHA	
121	900506	112	270	2	2	210	2	AMPHIPODA	

Table 3 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS	COMMENTS
121	900506	112	285	2	2	250	2	CHAETOGNATHA	
121	900506	112	300	1	2	270	3	AMPHIPODA PTEROPODA	
121	900506	112	285	1	2	230	3	AMPHIPODA	
121	900506	112	285	2	2	240	3	CHAETOGNATHA	
121	900506	112	290	2	2	240	2	CHAETOGNATHA	
121	900506	112	295	1	2	250	2	AMPHIPODA	
121	900506	112	290	2	2	260	2	CHAETOGNATHA	
121	900506	112	285	2	2	240	2	CHAETOGNATHA	
121	900506	112	280	2	2	230	2	CHAETOGNATHA AMPHIPODA	
121	900506	112	310			290			
121	900506	112	290						
121	900506	112	295						
121	900506	112	280						
121	900506	112	270						
121	900506	112	275						
121	900506	112	295						
121	900506	112	280						
121	900506	112	270						
121	900506	112	290						
121	900506	112	295						
121	900506	112	290						
121	900506	112	285						
121	900506	112	290						
121	900506	112	290						
121	900506	112	280						
121	900506	112	270						
121	900506	112	280						
121	900506	112	285						
121	900506	112	285						
121	900506	112	290						
121	900506	112	290						
121	900506	112	305						
121	900506	112	340						
121	900506	112	275						
121	900506	112	275						
121	900506	112	280						
121	900506	112	280						
121	900506	112	265						
121	900506	112	295						
121	900506	112	290						
121	900506	112	290						
121	900506	112	295						
121	900506	112	380						

Table 3 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS	COMMENTS
121	900506	112	360						
121	900506	112	290						
121	900506	112	380						
121	900506	112	305						
121	900506	112	300						
121	900506	112	300						
121	900506	112	280						
121	900506	112	280						
121	900506	112	290						
121	900506	112	305						
121	900506	112	270						
121	900506	112	295						
121	900506	112	285						
121	900506	112	310						
121	900506	112	280						
121	900506	112	285						
121	900506	112	300						
121	900506	112	280						
121	900506	112	305						
121	900506	112	300						
121	900506	112	280						
121	900506	112	330						
121	900506	112	310						
121	900506	112	280						
121	900506	112	285						
121	900506	112	355						
121	900506	112	280						
121	900506	112	390						
121	900506	112	330						
121	900506	112	300						
121	900506	112	350						
121	900506	112	290						
121	900506	112	295						
121	900506	112	285						
121	900506	112	300						
121	900506	112	300						
121	900506	112	275						
121	900506	112	280						
121	900506	112	300						
121	900506	112	255						
121	900506	112	280						
121	900506	112	275						
121	900506	112	285						

Table 3 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS	COMMENTS
121	900506	112	290						
121	900506	112	310						
121	900506	112	315						
121	900506	112	280						
121	900506	112	265						
122	900507	112	415	2	2	820	1	CHAETOGNATHA	
122	900507	112	395	2	2	650	1		
122	900507	112	490	1	2	1260	1		
122	900507	112	425	2	2	800	1		
122	900507	112	430	2	2	780	1		
122	900507	112	400	1	2	600	1		
122	900507	112	460	2	2	1000	1		
122	900507	112	350	2	2	580	1		
122	900507	112	350	2	2	390	1		
122	900507	112	440	1	2	890	1		
122	900507	112	430	1	2	870	1		
122	900507	112	420	1	2	780	1		
122	900507	112	420	1	2	730	1		
122	900507	112	390	2	2	620	1		
122	900507	112	400	1	2	610	0		
122	900507	112	405	2	2	650	1		
122	900507	112	390	2	2	520	0		
123	900507	108	365	2	2	430	0		
123	900507	290	480	1	5	1700	2	SQUID	
123	900507	290	420	2	5	1070	3	SQUID	
123	900507	290	430	1	5	1450	3	SQUID	
123	900507	290	460	1	5	1670	2	SQUID	
123	900507	290	430	2	5	1420	3	SQUID	
123	900507	290	450	1	5	1490	2	SQUID	
123	900507	290	430	2	5	1440	3	SQUID	
123	900507	290	425	2	5	1420	1	SQUID	
123	900507	290	450	1	5	1530	2	SQUID	
123	900507	290	410	2	5	1320	2	SQUID	
123	900507	290	470	1	5	1750	2	TUNICATA	
124	900507	290	420	2	5	1330	1	TUNICATA	
124	900507	290	465	1	5	1620	2	TUNICATA SQUID	
125	900507	290	430	2	5	1400	0		
125	900507	290	430	1	5	1350	3		
125	900507	290	390	2	5	1040	1	BLACK OBJECT SQUID	
125	900507	290	350	1	5	710	1	EUPHAUSID SQUID	
125	900507	290	435	1	5	1390	2	EUPHAUSID SQUID	
127	900508	108	355	1	2	430	3	AMPHIPODA	
127	900508	108	370	2	2	470	2	AMPHIPODA	

Table 3 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS	COMMENTS
127	900508	108	350	2	2	450	3	AMPHIPODA	
127	900508	108	355	2	2	450	3	AMPHIPODA	
128	900509	108	345	1	2	415	0		
128	900509	108	320	1	2	305	1	AMPHIPODA	
128	900509	108	300	2	2	460	0		
128	900509	108	390	1	2	550	1	AMPHIPODA	
128	900509	108	430	1	2	670	1	COPEPODA	
128	900509	112	430	1	2	830	1	MEDUSAE	
128	900509	112	400	1	2	660	1		
128	900509	115	490	2	2	1350	1	PTEROPODA	
128	900509	115	530	1	2	1700	1	PTEROPODA	
128	900509	115	535	2	2	1600	0		
128	900509	115	470	1	2	1210	3	SQUID	
130	900510	108	350	2	2	405	2	AMPHIPODA	
130	900510	108	355	1	2	390	2	AMPHIPODA	
130	900510	108	330	2	2	320	0		
130	900510	108	355	2	2	470	2	AMPHIPODA	
130	900510	108	350	2	2	440	2	AMPHIPODA	
130	900510	108	350	2	2	410	2	AMPHIPODA	
130	900510	108	365	2	2	480	2	AMPHIPODA	
130	900510	112	305	1	2	310	1		
130	900510	290	450	1	5	1710	2	SQUID	
130	900510	290	465	1	5	1600	4	SQUID	
130	900510	290	450	2	5	1610	4	SQUID	
130	900510	290	435	2	5	1460	0		
130	900510	290	450	1	5	1590	0		
130	900510	290	450	1	5	1650	4	SQUID	
130	900510	290	440	1	5	1500	4	SQUID	
130	900510	290	320	2	5	570	2	SQUID	
131	900511	108	370	2	2	470	0		
131	900511	108	365	2	2	420	0		
131	900511	115	485	2	2	1185	1	SQUID	
131	900511	115	520	2	2	1740	2	SQUID	
131	900511	115	455	2	2	1050	2	SQUID	
131	900511	290	430	1	5	1310	2	SQUID	
134	900512	290	340	2	5	700	4	SQUID	
134	900512	290	345	1	5	650	1	SQUID	
134	900512	290	345	2	5	690	2	SQUID	
134	900512	290	350	2	5	720	4	SQUID	
134	900512	290	360	2	5	770	3	SQUID	
134	900512	290	460	1	5	1670	2	SQUID	
134	900512	290	420	1	5	1440	2	SQUID	
134	900512	290	440	1	5	1700	2	SQUID	

Table 3 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS	COMMENTS
134	900512	290	440	1	5	1280	2	SQUID	
134	900512	290	430	2	5	1570	3	SQUID	
134	900512	290	455	1	5	1730	3	SQUID	
134	900512	290	460	1	5	1820	3	SQUID	
134	900512	290	430	2	5	1370	3	SQUID	
134	900512	290	435	2	5	1590	4	SQUID	
134	900512	290	420	2	5	1420	3	SQUID	
134	900512	290	440	2	5	1560	2	SQUID	
134	900512	290	345	1	5	770	4	SQUID	
134	900512	290	340	1	5	670	3	SQUID	
134	900512	290	340	1	5	720	4	SQUID	
134	900512	290	340	1	5	640	3	SQUID	
134	900512	290	325	1	5	610	3	SQUID	
134	900512	290	350	2	5	750	3	SQUID	
134	900512	290	335	1	5	680	4	SQUID	
134	900512	290	350	2	5	700	3	SQUID	
134	900512	290	335	2	5	630	4	FISH	
137	900513	112	335	2	2	430	2	AMPHIPODA	
137	900513	112	370	2	2	480	1	AMPHIPODA	
137	900513	112	370	2	2	510	1	AMPHIPODA	
137	900513	290	420	2	5	1310	2	SQUID	
137	900513	290	410	2	5	1270	3	SQUID	
138	900513	108	360	2	2	450	2	AMPHIPODA	
139	900513	108	380	2	2	550	2	AMPHIPODA	
139	900513	108	345	2	2	400	2	AMPHIPODA	
139	900513	108	360	1	2	440	2	AMPHIPODA	
139	900513	108	370	1	2	460	2	AMPHIPODA	
139	900513	108	345	2	2	425	1	AMPHIPODA	
139	900513	108	340	1	2	390	2	AMPHIPODA	
139	900513	108	335	1	2	380	2	AMPHIPODA	
139	900513	108	320	1	2	310	2	AMPHIPODA	
139	900513	112	330	2	2	400	3	UNIDENTIFIABLE	
139	900513	112	310	1	2	340	2		
139	900513	112	320	2	2	340	2		
139	900513	112	340	1	2	450	2		
139	900513	112	340	1	2	440	2		
139	900513	112	320	1	2	375	2		
139	900513	112	305	2	2	320	2		
139	900513	112	320	2	2	340	2	AMPHIPODA	
139	900513	112	320	1	2	360	2		
139	900513	112	320	1	2	370	2		
139	900513	112	285	1	2	215	2		
139	900513	115	525	2	2	1470	2	SQUID	

Table 3 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS	COMMENTS
139	900513	115	500	2	2	1330	4	SQUID	
139	900513	115	470	1	2	1170	3	SQUID	
139	900513	115	515	2	2	1420	2	SQUID	
140	900514	108	350	2	2	400	1	FISH LARVAE	
140	900514	108	390	2	2	430	1	FISH LARVAE	
140	900514	108	340	1	2	380	1	COPEPODA	
140	900514	112	460	1	2	1060	1		
140	900514	112	310	2	2	290	1		
140	900514	115	440	2	2	890	1	SQUID	
140	900514	115	400	1	2	680	0		
141	900514	108	340						
141	900514	108	350						
141	900514	108	350						
141	900514	108	370						
141	900514	108	295						
141	900514	108	350						
141	900514	108	340						
141	900514	108	345						
141	900514	108	345						
141	900514	108	370						
141	900514	108	375						
141	900514	108	350						
141	900514	108	370						
141	900514	108	340						
141	900514	108	355						
141	900514	108	330						
141	900514	108	340						
141	900514	108	360						
141	900514	108	365						
141	900514	108	355						
141	900514	108	375						
141	900514	108	345						
141	900514	108	340						
141	900514	108	315						
141	900514	108	360						
141	900514	108	335						
141	900514	108	365						
141	900514	108	365						
141	900514	108	350						
141	900514	108	360						
141	900514	108	360						
141	900514	108	355						
141	900514	108	350						

Table 3 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS	COMMENTS
141	900514	108	330						
141	900514	108	355						
141	900514	108	330						
141	900514	108	355						
141	900514	108	375						
141	900514	108	340						
141	900514	108	330						
141	900514	108	345						
141	900514	108	335						
141	900514	108	325						
141	900514	108	325						
141	900514	108	360						
141	900514	108	345						
141	900514	108	350						
141	900514	108	330						
141	900514	108	345						
141	900514	108	340						
141	900514	108	330						
141	900514	108	355						
141	900514	108	325						
141	900514	108	355	1	2	410	2	SQUID FISH LARVAE	
141	900514	108	345	1	2	460	2		
141	900514	108	330	1	2	400	2	PTEROPODA	
141	900514	108	360	2	2	500	1	PTEROPODA	
141	900514	108	350	2	2	440	2	FISH LARVAE	
141	900514	108	355	2	2	450	3	PTEROPODA COPEPODA	
141	900514	108	355	2	2	460	2	OIKOPLEURA	
141	900514	108	330	1	2	400	2	COPEPODA	
141	900514	108	350	1	2	430	2	FISH LARVAE	
141	900514	108	365	2	2	480	2		
141	900514	108	365	2	2	480	2	FISH LARVAE	
141	900514	108	355	2	2	470	2	FISH LARVAE COPEPODA	
141	900514	108	370	2	2	510	3		
141	900514	108	340	2	2	410	2	COPEPODA PTEROPODA	
141	900514	108	330	1	2	390	1		
141	900514	108	350	1	2	460	2	COPEPODA	
141	900514	108	340	1	2	420	3	COPEPODA	
141	900514	108	380	1	2	550	2	PTEROPODA	
141	900514	108	360	2	2	460	2	AMPHIPODA	
141	900514	108	365	1	2	460	1	FISH	
141	900514	108	360	1	2	480	2	PTEROPODA	
141	900514	108	350	2	2	480	2	PTEROPODA & FISH LARVAE	
141	900514	108	350	2	2	420	2	PTEROPODA & FISH LARVAE	

Table 3 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS	COMMENTS
141	900514	108	335	1	2	420	1	COPEPODA	
141	900514	108	325	1	2	410	1		
141	900514	108	350	1	2	430	2	SQUID OIKOPLEURA	
141	900514	108	350	1	2	430	1	COPEPODA	
141	900514	108	340	2	2	420	2		
141	900514	108	345	2	2	440	2	PTEROPODA COPEPODA	
141	900514	108	340	2	2	410	2	PTEROPODA COPEPODA	
141	900514	108	350	1	2	480	2	FISH LARVAE & EGGS	
141	900514	108	375	1	2	480	1	FISH LARVAE	
141	900514	108	370	2	2	500	3	FISH LARVAE	
141	900514	108	345	1	2	440	2	OIKOPLEURA & FISH EGGS	
141	900514	108	360	2	2	490	1	OIKOPLEURA	
141	900514	108	350	2	2	450	2	COPEPODA	
141	900514	108	375	1	2	510	2	COPEPODA	
141	900514	108	340	2	2	395	1	COPEPODA & FISH LARVAE	
141	900514	108	350	2	2	460	2	COPEPODA	
141	900514	108	345	2	2	390	3	MYCTOPHIDS & OIKOPLEURA	
141	900514	108	320	2	2	360	2	OIKOPLEURA	
141	900514	108	360	2	2	450	1		
141	900514	108	375	1	2	515	1	COPEPODA AMPHIPODA	
141	900514	108	355	2	2	460	2	FISH LARVAE	
141	900514	108	350	2	2	420	2	COPEPODA	
141	900514	108	340	1	2	430	1	FISH LARVAE	
141	900514	108	330	1	2	370	2	COPEPODA	
141	900514	108	355	2	2	430	1	FISH EGGS	
141	900514	108	345	2	2	420	2	FISH LARVAE SQUID PTEROPODA	
141	900514	108	365	1	2	490	3	COPEPODA	
141	900514	108	350						
141	900514	108	350						
141	900514	108	340						
141	900514	108	325						
141	900514	108	338						
141	900514	108	360						
141	900514	108	340						
141	900514	108	335						
141	900514	108	380						
141	900514	108	320						
141	900514	108	320						
141	900514	108	290						
141	900514	108	340						
141	900514	108	355						
141	900514	112	410	1	2	810	2		
141	900514	112	410	1	2	730	1		

Table 3 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS	COMMENTS
141	900514	112	360	1	2	550	2	OIKOPLEURA	
141	900514	112	305	2	2	320	2	OIKOPLEURA	
141	900514	112	295	2	2	280	2	OIKOPLEURA	
141	900514	112	300	1	2	340	1		
141	900514	112	310	1	2	330	1		
141	900514	112	305	2	2	310	2		
141	900514	112	420	1	2	810	1		
141	900514	112	410	1	2	740	2	OIKOPLEURA	
141	900514	112	345	1	2	430	2		
141	900514	112	340	1	2	430	2	OIKOPLEURA	
141	900514	112	340	1	2	465	2	OIKOPLEURA	
141	900514	112	360	1	2	530	2		
141	900514	112	330	1	2	420	1		
141	900514	112	340	1	2	460	2	OIKOPLEURA	
141	900514	112	400	2	2	740	2	OIKOPLEURA	
141	900514	112	320	2	2	360	1		
141	900514	112	325	1	2	370	2		
141	900514	112	330	1	2	400	2	OIKOPLEURA	
141	900514	112	315			340			
141	900514	112	330			400			
141	900514	112	320			370			
141	900514	112	335			410			
141	900514	112	330	1	2	400	1	OIKOPLEURA	
141	900514	112	340	1	2	440	2	OIKOPLEURA	
141	900514	112	345	1	2	430	3	OIKOPLEURA	
141	900514	112	330	1	2	390	2	OIKOPLEURA	
141	900514	112	305	1	2	330	2	OIKOPLEURA	
141	900514	112	320	2	2	390	1	OIKOPLEURA	
141	900514	112	300	1	2	320	2	OIKOPLEURA	
141	900514	112	310	1	2	330	2	OIKOPLEURA & FISH LARVAE	
141	900514	112	295	1	2	280	2	OIKOPLEURA	
141	900514	112	315	1	2	330	2	OIKOPLEURA	
141	900514	112	330	1	2	380	2	OIKOPLEURA	
141	900514	112	315	1	2	340	2	OIKOPLEURA	
141	900514	112	295	1	2	280	1		
141	900514	112	325	1	2	400	2	OIKOPLEURA	
141	900514	112	315	2	2	320	1		
141	900514	112	330	2	2	420	2	OIKOPLEURA	
141	900514	112	335	2	2	400	3	OIKOPLEURA	
141	900514	112	320	2	2	360	3	OIKOPLEURA	
141	900514	112	310	1	2	350	2	OIKOPLEURA	
141	900514	112	305	1	2	310	2	OIKOPLEURA	
141	900514	112	315	2	2	310	1	OIKOPLEURA	

Table 3 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS	COMMENTS
141	900514	112	300	1	2	290	2	OIKOPLEURA	
141	900514	112	315	1	2	360	2	OIKOPLEURA	
141	900514	112	305	1	2	300	1	OIKOPLEURA	
141	900514	112	305	1	2	300	2	OIKOPLEURA	
141	900514	112	295	2	2	300	2	OIKOPLEURA	
141	900514	112	305						
141	900514	112	275						
141	900514	112	320						
141	900514	112	315						
141	900514	112	330						
141	900514	112	345						
141	900514	112	300						
141	900514	112	340						
141	900514	112	305						
141	900514	112	290						
141	900514	112	295						
141	900514	112	320						
141	900514	112	325						
141	900514	112	310						
141	900514	112	300						
141	900514	112	325						
141	900514	112	280						
141	900514	112	305						
141	900514	112	310						
141	900514	112	300						
141	900514	112	320						
141	900514	112	300						
141	900514	112	300						
141	900514	112	320						
141	900514	112	330						
141	900514	112	320						
141	900514	112	320						
141	900514	112	295						
141	900514	112	325						
141	900514	112	345						
141	900514	112	330						
141	900514	112	280						
141	900514	112	285						
141	900514	112	320						
141	900514	112	300						
141	900514	112	320						
141	900514	112	325						
141	900514	112	330						

Table 3 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS	COMMENTS
141	900514	112	325						
141	900514	112	315						
141	900514	112	300						
141	900514	112	390						
141	900514	112	300						
141	900514	112	290						
141	900514	112	310						
141	900514	112	320						
141	900514	112	305						
141	900514	112	320						
141	900514	112	300						
141	900514	112	340						
141	900514	112	315						
141	900514	112	295						
141	900514	112	320						
141	900514	112	295						
141	900514	112	340						
141	900514	112	305						
141	900514	112	350						
141	900514	112	325						
141	900514	112	320						
141	900514	112	310						
141	900514	112	345						
141	900514	112	300						
141	900514	112	320						
141	900514	112	300						
141	900514	112	295						
141	900514	112	300						
141	900514	112	320						
141	900514	112	300						
141	900514	112	310						
141	900514	112	310						
141	900514	112	330						
141	900514	290	450	2	5	1660	0		
141	900514	290	470	1	5	1910	1	SQUID	
141	900514	290	355	2	5	720	1	SQUID	
142	900514	112	420	2	2	880	2		
142	900514	112	370	1	2	580	3		
142	900514	112	345	1	2	480	3		
142	900514	112	460	1	2	1000	2		
142	900514	112	380	2	2	470	1		
142	900514	290	330	1	5	670	3	SQUID	
142	900514	290	355	1	5	810	4	SQUID	

Table 3 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS	COMMENTS
142	900514	290	350	2	5	750	2	SQUID	
142	900514	290	345	2	5	640	2	SQUID & FISH	
142	900514	290	360	1	5	880	4	SQUID	
142	900514	290	350	2	5	770	4	SQUID	
142	900514	290	340	1	5	720	3	SQUID FISH	
142	900514	290	350	2	5	780	3	SQUID	
142	900514	290	345	2	5	670	2	SQUID	
142	900514	290	340	2	5	650	3	SQUID & FISH	
142	900514	290	355	1	5	780	4	SQUID	
142	900514	290	340	1	5	650	3	SQUID	
142	900514	290	385	1	5	1010	4	SQUID	
142	900514	290	365	1	5	770	3	SQUID	
142	900514	290	360	2	5	810	3	MYCTOPHID	
142	900514	290	365	1	5	780	4	SQUID & SHRIMP	
142	900514	290	350	2	5	750	3	SQUID	
142	900514	290	360	1	5	850	4	SQUID	
142	900514	290	350	2	5	720	3	SQUID & FISH	
142	900514	290	370	1	5	870	3	SQUID	
142	900514	290	385	1	5	1060	4	SQUID & SHRIMP	
142	900514	290	400	2	5	1070	2	SQUID	
142	900514	290	450	1	5	1600	4	SQUID & NET	
142	900514	290	450	1	5	1620	3	SQUID	
142	900514	290	440	1	5	1560	3	SQUID	
142	900514	290	470	1	5	1720	4	SQUID	

Table 4. Biological data collected on the 1991 R/V Tinro cruise.

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
107	230491	108	360	1	2.0	600	2	SPECIES CODE 108 = PINK
107	230491	108	400	2	2.5	590	2	
107	230491	118	515	2	3.0	1600	2	SPECIES CODE 118 = SOCKEYE
108	250491	108	345	2	3.0	410	4	
108	250491	108	340	2	3.0	380	2	
108	250491	108	400	1	2.0	530	2	
108	250491	108	400	1	2.0	540	2	
108	250491	108	385	1	2.0	530	2	
108	250491	108	395	1	2.0	560	3	
108	250491	108	395	1	2.0	520	2	
108	250491	108	370	2	3.0	460	3	
108	250491	108	370	2	3.0	490	3	
108	250491	108	405	1	2.0	630	3	
108	250491	108	365	2	3.0	430	3	
108	250491	108	370	2	3.0	470	3	
108	250491	108	390	1	2.0	540	3	
108	250491	108	360	2	3.0	460	3	
108	250491	108	370	1	2.0	550	3	
108	250491	108	385	1	2.0	490	3	
108	250491	108	370	1	2.0	520	2	
108	250491	108	395	1	2.0	580	3	
108	250491	108	315	1	2.0	300	3	
108	250491	108	370	2	3.0	440	2	
108	250491	108	360	1	2.0	460	3	
108	250491	108	365	2	3.0	440	2	
108	250491	108	370	1	2.0	450	3	
108	250491	108	360	1	2.0	430	3	
108	250491	108	385	1	2.0	510	3	
108	250491	108	370	1	2.0	400	3	
108	250491	108	370	2	3.0	460	2	
108	250491	108	370	2	3.0	450	2	
108	250491	108	325	2	3.0	330	3	
108	250491	108	390	1	2.0	580	4	
108	250491	108	395	1	2.0	530	3	
108	250491	108	325	2	2.0	290	2	
108	250491	108	365	2	3.0	470	2	
108	250491	108	365	1	2.0	420	4	
108	250491	108	385	2	3.0	510	3	
108	250491	108	360	2	3.0	470	3	
108	250491	108	350	1	2.0	410	3	
108	250491	108	415	1	2.0	560	4	
108	250491	108	320	2	3.0	380	3	
108	250491	108	360	1	2.0	450	2	

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
108	250491	108	335	1	2.0	390	3	
108	250491	108	365	1	2.0	470	3	
108	250491	108	350	2	3.0	390	3	
108	250491	108	400	1	4.0	610	3	
108	250491	108	350	1	4.0	410	3	
108	250491	108	390	2	3.0	520	4	
108	250491	108	365	1	2.0	440	3	
108	250491	108	370	2	3.0	450	3	
108	250491	108	365	1	2.0	400	4	
108	250491	108	365	2	3.0	440	3	
108	250491	108	315					
108	250491	108	355					
108	250491	108	355					
108	250491	108	375					
108	250491	108	385					
108	250491	108	385					
109	250491	108	385	2	3.0	510	3	
109	250491	108	410	2	3.0	580	2	
109	250491	108	370	2	3.0	350	2	
109	250491	108	340	1	2.0	350	2	
109	250491	108	355	2	2.0	390	3	
109	250491	108	345	1	2.0	360	3	
109	250491	108	330	2	3.0	290	1	
109	250491	108	355	1	2.0	370	2	
110	250491	108						
110	250491	108						
110	250491	108						
110	250491	108						
110	250491	108						
110	250491	108						
110	250491	108						
110	250491	108						
110	250491	108						
110	250491	108						
110	250491	108						
110	250491	108						
110	250491	108						
110	250491	108						
110	250491	108						
110	250491	108						
110	250491	108						
110	250491	108						

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
110	250491	108						
110	250491	108						
110	250491	108						
110	250491	108						
110	250491	108						
110	250491	108						
110	250491	108						
110	250491	108						
110	250491	108						
110	250491	108						
110	250491	108						
110	250491	108						
110	250491	108						
110	250491	108						
110	250491	108						
110	250491	108						
110	250491	108						
110	250491	108						
110	250491	108						
110	250491	108						
110	250491	108						
110	250491	108						
110	250491	108						
110	250491	108						
110	250491	108						
110	250491	108						
110	250491	108						
110	250491	108						
110	250491	108						
110	250491	108						
110	250491	108						
110	250491	112	650	1	2.0	2750	3	SPECIES CODE 112 = CHUM
110	250491	112	590	2	3.0	2000	3	
110	250491	112	560	2	3.0	1900	3	
110	250491	112	280	2	2.0	240	2	
110	250491	112	285	1	2.0	260	2	
110	250491	112	300	1	2.0	300	3	
110	250491	112	280	1	2.0	230	2	
110	250491	112	300	1	2.0	310	2	
110	250491	112	290	1	2.0	280	3	
110	250491	112	310	1	2.0	320	2	
110	250491	112	320	2	2.0	350	3	
110	250491	112	395	2	2.0	650	2	

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
110	250491	112	280	1	2.0	250	3	
110	250491	112	300	1	2.0	290	3	
110	250491	112	270	2	2.0	240	3	
110	250491	112	310	2	2.0	300	3	
110	250491	112	290	2	2.0	270	2	
110	250491	112	290	2	2.0	240	2	
111	260491	108	375	1	2.0	490	1	
111	260491	108	390	1	2.0	540	2	
111	260491	108	360	1	2.0	410	2	
111	260491	108	340	2	2.0	400	1	
111	260491	108	340	2	2.0	350	1	
111	260491	108	390	1	2.0	560	1	
111	260491	108	350	1	2.0	420	1	
111	260491	108	360	2	2.5	460	3	
111	260491	108	385	2	3.0	470	3	
111	260491	108	390	1	2.0	520	2	
111	260491	108	390	1	2.0	510	3	
111	260491	108	340	1	2.0	350	2	
111	260491	108	395	2	3.0	540	2	
111	260491	108	345	2	2.5	400	2	
111	260491	108	350	2	2.5	460	2	
111	260491	108	335	1	2.0	360	2	
111	260491	108	360	1	2.0	420	3	
111	260491	108	375	1	2.0	470	2	
111	260491	108	330	1	2.0	370	2	
111	260491	108	340	2	2.5	390	4	
111	260491	108	395	2	2.5	560	2	
111	260491	108	340	2	2.5	410	3	
111	260491	108	380	1	2.0	470	3	
111	260491	108	310	2	2.5	330	3	
111	260491	108	390	2	2.5	560	3	
111	260491	108	335	2	2.5	380	3	
111	260491	108	365	1	2.0	480	2	
111	260491	108	345	1	2.0	390	3	
111	260491	108	340	2	3.0	420	2	
111	260491	108	365	1	2.0	410	3	
111	260491	108	390	1	2.0	520	3	
111	260491	108	345	1	2.0	400	3	
111	260491	108	400	2	3.0	590	2	
111	260491	108	360	1	2.0	430	2	
111	260491	108	365	1	2.0	420	3	
111	260491	108	350	1	2.0	410	2	
111	260491	108	385	1	2.0	510	3	

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
111	260491	108	360	1	2.0	430	2	
111	260491	108	355	2	2.5	390	3	
111	260491	108	380	2	2.5	520	2	
111	260491	108	355	1	2.0	420	3	
111	260491	108	345	1	2.0	410	2	
111	260491	108	340	1	2.0	360	4	
111	260491	108	340	2	2.5	380	2	
111	260491	108	420	2	3.0	670	1	
111	260491	108	390	1	2.0	530	2	
111	260491	108	385	1	2.0	490	3	
111	260491	108	360	1	2.0	460	2	
111	260491	108	380	2	3.0	550	2	
111	260491	108	360	1	2.0	460	3	
111	260491	108	325					
111	260491	108	325					
111	260491	108	325					
111	260491	108	325					
111	260491	108	335					
111	260491	108	335					
111	260491	108	335					
111	260491	108	335					
111	260491	108	335					
111	260491	108	335					
111	260491	108	335					
111	260491	108	335					
111	260491	108	335					
111	260491	108	335					
111	260491	108	335					
111	260491	108	335					
111	260491	108	335					
111	260491	108	335					
111	260491	108	335					
111	260491	108	335					
111	260491	108	335					
111	260491	108	335					
111	260491	108	345					
111	260491	108	345					
111	260491	108	345					
111	260491	108	345					
111	260491	108	345					
111	260491	108	345					
111	260491	108	345					

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
111	260491	108	345					
111	260491	108	345					
111	260491	108	355					
111	260491	108	355					
111	260491	108	355					
111	260491	108	355					
111	260491	108	355					
111	260491	108	355					
111	260491	108	355					
111	260491	108	355					
111	260491	108	355					
111	260491	108	355					
111	260491	108	355					
111	260491	108	355					
111	260491	108	355					
111	260491	108	365					
111	260491	108	365					
111	260491	108	365					
111	260491	108	365					
111	260491	108	365					
111	260491	108	375					
111	260491	108	375					
111	260491	108	375					
111	260491	108	375					
111	260491	108	375					
111	260491	108	385					
111	260491	108	385					
111	260491	108	385					
111	260491	108	405					
111	260491	108	405					
111	260491	108	405					
111	260491	108	415					
111	260491	108	415					
111	260491	108	415					
111	260491	108						
111	260491	112	535	2	3.0	1670	0	
111	260491	112	295	1	2.0	280	3	
111	260491	112	540	2	3.0	1330	0	
111	260491	118	560	2	3.0	1860	3	
111	260491	124	340	1	2.0	440	4	SPECIES CODE 124 = CHINOOK
112	260491	108	355					
112	260491	108	345					

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
112	260491	108	345					
112	260491	108	325					
112	260491	108	395					
112	260491	108	405					
112	260491	108	405					
112	260491	108	375					
112	260491	108	385					
112	260491	108	405					
112	260491	108	375					
112	260491	108	385					
112	260491	108	365					
112	260491	108	375					
112	260491	108	345					
112	260491	108	375					
112	260491	108	355					
112	260491	108	385					
112	260491	108	385					
112	260491	108	355					
112	260491	108	335					
112	260491	108	365					
112	260491	108	365					
112	260491	108	385					
112	260491	108	365					
112	260491	108	375					
112	260491	108	355					
112	260491	108	375					
112	260491	108	345					
112	260491	108	425					
112	260491	108	385					
112	260491	108	345					
112	260491	108	355					
112	260491	108	385					
112	260491	108	405					
112	260491	108	375					
112	260491	108	365					
112	260491	108	405					
112	260491	108	380	1	2.0	480	3	
112	260491	108	355	1	2.0	430	3	
112	260491	108	390	2	2.5	510	3	
112	260491	108	330	1	2.0	340	3	
112	260491	108	380	2	2.5	540	3	
112	260491	108	360	2	2.5	460	4	
112	260491	108	340	1	2.0	370	4	

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
112	260491	108	375	1	2.0	460	3	
112	260491	108	370	1	2.0	460	4	
112	260491	108	370	2	2.5	440	4	
112	260491	108	335	2	2.5	380	4	
112	260491	108	405	1	2.0	600	3	
112	260491	108	340	1	2.0	420	4	
112	260491	108	340	2	2.5	410	3	
112	260491	108	340	2	2.5	360	3	
112	260491	108	340	1	2.0	400	4	
112	260491	108	370	2	2.5	470	4	
112	260491	108	335	1	2.0	370	4	
112	260491	108	405	2	3.0	580	4	
112	260491	108	325	1	2.0	370	3	
112	260491	108	345	1	2.0	390	4	
112	260491	108	355	2	2.5	420	4	
112	260491	108	360	1	2.0	380	4	
112	260491	108	350	1	2.0	380	4	
112	260491	108	355	1	2.0	440	4	
112	260491	108	345	2	2.5	400	3	
112	260491	108	360	1	2.0	490	4	
112	260491	108	380	1	2.0	520	4	
112	260491	108	370	2	2.5	490	4	
112	260491	108	335	1	2.0	380	4	
112	260491	108	370	2	2.5	480	4	
112	260491	108	345	2	2.5	370	4	
112	260491	108	350	2	2.5	440	3	
112	260491	108	380	2	3.0	550	3	
112	260491	108	325	1	2.0	360	4	
112	260491	108	345	2	2.5	390	3	
112	260491	108	345	2	2.5	390	4	
112	260491	108	365	2	2.5	480	4	
112	260491	108	355	1	2.0	390	4	
112	260491	108	360	1	2.0	470	4	
112	260491	108	350	1	2.0	450	3	
112	260491	108	340	1	2.0	360	4	
112	260491	108	375	1	2.0	490	3	
112	260491	108	350	2	2.5	430	4	
112	260491	108	400	1	2.0	540	3	
112	260491	108	370	2	2.5	480	4	
112	260491	108	380	2	2.5	540	4	
112	260491	108	350	1	2.0	440	4	
112	260491	108	330	2	2.5	360	4	
112	260491	108	345	2	2.5	440	4	

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
113	260491	108	370	1	2.5	500	4	
113	260491	108	320	2	2.5	350	4	
113	260491	108	350	2	2.5	400	3	
113	260491	108	330	1	2.0	350	4	
113	260491	108	370	1	2.5	440	3	
113	260491	108	335	1	2.0	350	3	
113	260491	108	370	2	2.5	480	3	
113	260491	108	330	2	2.5	370	3	
113	260491	108	370	2	2.5	470	3	
113	260491	108	365	1	2.5	460	3	
113	260491	108	340	2	2.5	360	4	
113	260491	108	365	2	2.5	470	4	
113	260491	108	340	2	2.5	370	4	
113	260491	108	345	2	2.5	410	2	
113	260491	108	340	2	2.5	420	3	
113	260491	108	375	2	2.5	520	3	
113	260491	108	340	1	2.5	390	3	
113	260491	108	330	1	2.0	370	2	
113	260491	108	[illegible]	2	2.5	420	3	
113	260491	108	[illegible]	1	2.5	380	2	
113	260491	108	355	2	2.5	460		
113	260491	108	345	3	2.5	440		
113	260491	108	370	4	2.5	490		
113	260491	108	360	3	2.5	440		
113	260491	108	335	3	2.0	380		
113	260491	108	335					
113	260491	108	335					
113	260491	108	335					
113	260491	108	335					
113	260491	108	335					
113	260491	108	335					
113	260491	108	335					
113	260491	108	345					
113	260491	108	345					
113	260491	108	345					
113	260491	108	345					
113	260491	108	345					
113	260491	108	345					
113	260491	108	345					
113	260491	108	355					
113	260491	108	355					
113	260491	108	365					
113	260491	108	365					

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
113	260491	108	365					
113	260491	108	375					
113	260491	108	395					
113	260491	108	415					
113	260491	112	540	2	2.5	1750	4	
113	260491	112	650	2	2.5	2880	3	
113	260491	112	440	1	2.0	840	4	
113	260491	112	480	2	2.5	1350	4	
113	260491	112	580	2	2.5	1840	3	
113	260491	112	275	2	3.0	220	4	
113	260491	112	290	1	2.0	250	2	
113	260491	112	295	2	2.0	260	2	
113	260491	112	275	2	2.0	250	2	
113	260491	112	285	2	2.0	260	3	
113	260491	112	275	1	2.0	250	3	
113	260491	112	320	1	2.0	340	2	
113	260491	112	330	2	2.0	380	2	
113	260491	112	290	1	2.0	280	2	
113	260491	112	285	2	2.0	250	3	
113	260491	112	265	2	2.0	210	2	
113	260491	112	300	2	2.0	310	2	
113	260491	112	295	2	2.0	280	2	
113	260491	112	260	1	2.0	230	3	
113	260491	112	290	1	2.0	300	2	
113	260491	112	290	2	2.0	280	2	
113	260491	112	285	2	2.0	260	2	
113	260491	112	340	1	2.0	400	2	
113	260491	112	310	1	2.0	330	3	
113	260491	112	320	2	2.0	360	2	
113	260491	112	280	2	2.0	250	2	
113	260491	112	300	2	2.0	270	3	
113	260491	112	300	1	2.0	290	2	
113	260491	112	290	2	2.0	270	2	
113	260491	112	295	2	2.0	280	2	
113	260491	112	325	2	2.0	370	2	
113	260491	112	270	1	2.0	230	2	
113	260491	112	285	1	2.0	270	2	
113	260491	112	260	2	2.0	220	3	
113	260491	112	295	2	2.0	300	3	
113	260491	112	285	1	2.0	260	2	
113	260491	112	300	1	2.0	300	2	
113	260491	112	300	2	2.0	310	3	
113	260491	112	310	1	2.0	350	3	

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
113	260491	112	275	2	2.0	250	3	
113	260491	112	280	1	2.0	270	3	
113	260491	112	295	2	2.0	290	3	
113	260491	112	290	2	2.0	280	3	
113	260491	112	280	1	2.0	250	2	
113	260491	112	280	1	2.0	260	2	
113	260491	112	285	2	2.0	270	2	
113	260491	112	285	1	2.0	270	3	
113	260491	112	300	2	2.0	280	2	
113	260491	112	270	1	2.0	220	2	
113	260491	112	280	1	2.0	250	2	
113	260491	112	280	2	2.0	260	3	
113	260491	112	305	1	2.0	350	2	
113	260491	112	270	1	2.0	270	2	
113	260491	112	300	2	2.0	310	3	
113	260491	112	305	2	2.0	320	2	
113	260491	112	245					
113	260491	112	255					
113	260491	112	265					
113	260491	112	265					
113	260491	112	275					
113	260491	112	275					
113	260491	112	275					
113	260491	112	275					
113	260491	112	275					
113	260491	112	275					
113	260491	112	285					
113	260491	112	285					
113	260491	112	285					
113	260491	112	285					
113	260491	112	285					
113	260491	112	285					
113	260491	112	285					
113	260491	112	285					
113	260491	112	285					
113	260491	112	285					
113	260491	112	285					
113	260491	112	285					
113	260491	112	295					
113	260491	112	295					
113	260491	112	295					
113	260491	112	295					

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
113	260491	112	295					
113	260491	112	295					
113	260491	112	295					
113	260491	112	305					
113	260491	112	305					
113	260491	112	305					
113	260491	112	305					
113	260491	112	305					
113	260491	112	315					
113	260491	112	325					
113	260491	118	390	2	2.0	640	2	
113	260491	118	455	2	2.0	1100	2	
113	260491	118	415	2	2.0	790	2	
113	260491	118	500	1	2.0	1480	2	
113	260491	118	480	1	2.0	1190	2	
113	260491	118	450	2	2.5	1000	3	
113	260491	118	420	1	2.0	850	2	
113	260491	118	440	1	2.0	930	2	
113	260491	118	440	2	2.0	920	2	
113	260491	118	435	1	2.0	940	2	
113	260491	118	430	2	2.0	750	2	
113	260491	118	420	1	2.0	770	2	
113	260491	118	420	2	2.0	830	2	
113	260491	118	400	2	2.0	750	2	
113	260491	118	400	1	2.0	650	2	
113	260491	118	400	2	2.0	630	2	
113	260491	118	390	2	2.0	580	2	
114	280491	108	385	2	3.0	470	2	
114	280491	108	370	2	2.5	470	0	
114	280491	108	380	1	2.0	590	2	
114	280491	108	380	1	2.0	460	1	
114	280491	108	340	2	2.5	360	2	
114	280491	108	315	2	2.5	350	2	
114	280491	108	375	1	2.0	490	1	
114	280491	108	355	2	2.5	400	0	
114	280491	108	365	1	2.0	440	2	
114	280491	108	360	2	2.5	470	1	
114	280491	108	370	2	2.5	470	2	
114	280491	108	370	2	3.0	460	1	
114	280491	108	370	1	2.0	470	2	
114	280491	108	360	2	2.5	420	2	
114	280491	108	330	2	2.5	390	2	
114	280491	108	335	1	2.0	390	3	

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
114	280491	108	350	1	2.0	340	0	
114	280491	108	340	1	2.0	420	0	
114	280491	108	370	1	2.0	440	2	
114	280491	108	350	2	2.5	410	0	
114	280491	108	340	1	2.0	330	1	
114	280491	108	380	2	2.5	510	1	
114	280491	108	350	1	2.0	420	1	
114	280491	108	370	1	2.0	480	0	
114	280491	108	405	1	2.0	670	1	
114	280491	108	345					
114	280491	108	345					
114	280491	108	345					
114	280491	108	355					
114	280491	108	365					
114	280491	108	375					
114	280491	108	395					
114	280491	108	395					
114	280491	112	490	2	2.5	1200	2	
114	280491	112	525	1	2.0	1460	2	
114	280491	112	530	1	2.0	1500	1	
114	280491	112	465	2	2.5	1000	0	
114	280491	112	425	2	2.5	740	2	
114	280491	112	450	2	2.5	770	1	
114	280491	112	410	1	2.0	630	0	
114	280491	112	385	2	2.5	610	1	
114	280491	112	275	1	2.0	250	1	
114	280491	112	305	1	2.0	340	2	
114	280491	112	315	1	2.0	330	1	
114	280491	112	360	1	2.0	450	0	
114	280491	112	280	1	2.0	260	1	
114	280491	112	285	1	2.0	260	1	
114	280491	112	290	1	2.0	260	0	
114	280491	118	280	1	2.0	240	1	
114	280491	118	320	1	2.0	330	1	
114	280491	118	275	1	2.0	240	1	
114	280491	118	305	1	2.0	310	0	
114	280491	118	385	2	2.0	560	1	
114	280491	118	300	1	2.0	310	0	
114	280491	118	285	1	2.0	270	1	
114	280491	118	295	1	2.0	320	0	
114	280491	118	385	2	2.0	610	0	
115	280491	108	375	1	2.0	500	2	
115	280491	108	400	1	2.0	630	2	

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
115	280491	108	345	2	2.5	490	2	
115	280491	108	430	1	2.0	910	2	
115	280491	108	345	2	2.5	480	2	
115	280491	108	400	1	2.0	630	3	
115	280491	108	350	2	3.0	470	2	
115	280491	108	370	2	3.0	560	3	
115	280491	108	345	1	2.0	470	3	
115	280491	108	390	1	2.0	590	3	
115	280491	108	375	1	2.0	540	2	
115	280491	108	350	2	2.5	490	2	
115	280491	108	365	1	2.0	540	2	
115	280491	108	365	2	2.5	530	2	
115	280491	108	355	1	2.0	490	2	
115	280491	108	390	1	2.0	560	1	
115	280491	108	375	1	2.0	550	2	
115	280491	108	370	2	2.5	520	2	
115	280491	108	330	2	2.5	390	1	
115	280491	108	340	1	2.0	460	3	
115	280491	108	390	1	2.0	530	3	
115	280491	108	380	1	2.0	540	3	
115	280491	108	410	1	2.0	630	2	
115	280491	108	400	1	2.0	580	3	
115	280491	108	380	1	2.0	540	3	
115	280491	108	380	1	2.0	520	2	
115	280491	108	320	1	2.0	350	3	
115	280491	108	375	2	3.0	540	3	
115	280491	108	380	2	3.0	500	2	
115	280491	108	400	1	2.0	590	2	
115	280491	108	380	2	4.0	490	2	
115	280491	108	360	2	2.5	460	3	
115	280491	108	400	1	2.0	590	3	
115	280491	108	345	2	2.5	450	3	
115	280491	108	315	1	2.0	350	2	
115	280491	108	360	2	2.5	460	3	
115	280491	108	365	2	2.5	470	2	
115	280491	108	370	2	2.5	490	1	
115	280491	108	360	1	2.0	460	3	
115	280491	108	350	1	2.0	410	3	
115	280491	108	325	1	2.0	420	3	
115	280491	108	375	2	3.0	520	3	
115	280491	108	345	1	2.0	420	3	
115	280491	108	350	2	2.5	420	3	
115	280491	108	345	2	3.0	410	2	

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
115	280491	108	350	2	2.5	460	3	
115	280491	108	345	1	2.0	400	1	
115	280491	108	345	1	2.0	400	3	
115	280491	108	325	2	2.5	370	3	
115	280491	108	330	2	2.5	360	3	
115	280491	108	315					
115	280491	108	325					
115	280491	108	335					
115	280491	108	335					
115	280491	108	335					
115	280491	108	335					
115	280491	108	335					
115	280491	108	345					
115	280491	108	345					
115	280491	108	345					
115	280491	108	345					
115	280491	108	345					
115	280491	108	345					
115	280491	108	345					
115	280491	108	345					
115	280491	108	345					
115	280491	108	355					
115	280491	108	355					
115	280491	108	355					
115	280491	108	355					
115	280491	108	355					
115	280491	108	355					
115	280491	108	355					
115	280491	108	355					
115	280491	108	355					
115	280491	108	355					
115	280491	108	355					
115	280491	108	355					
115	280491	108	365					
115	280491	108	365					
115	280491	108	365					
115	280491	108	365					
115	280491	108	365					
115	280491	108	365					
115	280491	108	365					

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
115	280491	108	365					
115	280491	108	365					
115	280491	108	365					
115	280491	108	365					
115	280491	108	365					
115	280491	108	365					
115	280491	108	365					
115	280491	108	365					
115	280491	108	365					
115	280491	108	365					
115	280491	108	365					
115	280491	108	375					
115	280491	108	375					
115	280491	108	375					
115	280491	108	375					
115	280491	108	375					
115	280491	108	375					
115	280491	108	375					
115	280491	108	375					
115	280491	108	385					
115	280491	108	385					
115	280491	108	385					
115	280491	108	385					
115	280491	108	385					
115	280491	108	385					
115	280491	108	385					
115	280491	108	395					
115	280491	108	400					
115	280491	108	400					
115	280491	108	415					
115	280491	108	415					
115	280491	108	415					
115	280491	108	425					
115	280491	108	435					
115	280491	118	550	1	2.0	1680	4	
116	280491	108	395	2	2.5	590	3	
116	280491	108	380	2	2.5	530	3	
116	280491	108	370	2	2.5	490	2	
116	280491	108	315	1	2.0	470	2	
116	280491	108	340	2	2.5	460	3	
116	280491	108	360	2	2.5	470	2	
116	280491	118	420	1	2.0	820	2	

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
116	280491	118	430	1	2.0	800	2	
116	280491	118	410	2	2.0	770	2	
117	280491	108	470	1	2.5	950	2	
117	280491	108	420	1	2.5	630	3	
117	280491	108	400	1	2.5	550	4	
117	280491	108	390	2	2.5	530	3	
117	280491	108	390	1	2.5	420	1	
117	280491	108	410	1	2.5	530	3	
117	280491	108	390	2	2.5	540	4	
117	280491	108	355	2	2.5	440	3	
117	280491	108	380	2	2.5	500	4	
117	280491	118	420	2	2.5	830	2	
117	280491	118	380	2	2.0	640	2	
118	290491	108	410	1	2.5	720	2	
118	290491	108	375	2	2.5	530	2	
118	290491	108	385	2	2.5	530	2	
118	290491	108	330	2	2.5	380	2	
118	290491	108	350	1	2.5	430	2	
118	290491	108	365	1	2.5	510	2	
118	290491	108	365	1	2.5	490	2	
118	290491	108	375	1	2.5	520	2	
118	290491	108	39[illegible]	2	2.5	600	2	
118	290491	112	51[illegible]	2	2.5	1460	2	
118	290491	112	580	1	2.0	1750	2	
118	290491	112	500	1	2.0	1630	2	
118	290491	112	560	1	2.0	1780	2	
118	290491	112	530	2	2.5	1400	2	
118	290491	112	520	1	2.0	1470	2	
118	290491	112	330	1	2.0	400	2	
118	290491	112	300	2	2.0	320	2	
118	290491	112	300	1	2.0	310	2	
118	290491	112	260	2	2.0	210	2	
118	290491	112	300	1	2.0	310	2	
118	290491	112	255	1	2.0	200	2	
118	290491	112	285	2	2.0	270	2	
118	290491	112	280	2	2.0	260	2	
118	290491	112	295	1	2.0	290	2	
118	290491	112	295	1	2.0	300	2	
118	290491	112	250	2	2.0	190	2	
118	290491	112	275	1	2.0	230	2	
118	290491	112	285	2	2.0	280	2	
118	290491	112	265	2	2.0	220	2	
118	290491	112	265	1	2.0	220	2	

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
118	290491	112	290	1	2.0	290	3	
118	290491	112	270	1	2.0	240	2	
118	290491	118	450	1	2.0	1000		
119	290491	108	390	2	3.0	480	1	
119	290491	108	405	1	2.0	590	0	
119	290491	108	385	1	2.0	500	1	
119	290491	108	355	2	3.0	460	1	
119	290491	108	360	1	2.0	420	1	
119	290491	108	360	1	2.0	410	0	
119	290491	108	385	1	2.0	500	0	
119	290491	108	375	2	2.5	510		
119	290491	108	370	2	2.5	520	1	
119	290491	108	380	1	2.0	560	1	
119	290491	108	370	1	2.0	440	0	
119	290491	108	345	1	2.0	390	0	
119	290491	108	360	2	2.5	420	0	
119	290491	108	395	2	2.5	530	1	
119	290491	108	370	2	2.5	480	0	
119	290491	112	295	1	2.0	250	0	
119	290491	112	380	1	2.0	300	0	
119	290491	118	390	2	2.0	650	0	
119	290491	118	455	1	2.0	1070	0	
119	290491	118	420	2	2.0	830	0	
119	290491	118	390	2	2.0	740	1	
119	290491	118	410	2	2.0	720	1	
119	290491	118	340	2	2.0	440	0	
120	290491	108	365	1	2.0	580	3	
120	290491	108	405	1	2.0	630	3	
120	290491	108	400	1	2.0	620	3	
120	290491	108	370	2	2.5	540	3	
121	290491	112	570	1	2.5	2270	2	
121	290491	118	430	2	2.0	1020		
121	290491	118	380	1	2.0	570		
122	300491	108	385	2	3.0	570	3	
122	300491	108	365	2	2.5	480	2	
122	300491	108	390	1	2.0	580	1	
122	300491	108	385	2	3.0	560	2	
122	300491	108	370	1	2.0	520	3	
122	300491	108	375	1	2.0	510	2	
122	300491	108	405	1	2.0	670	4	
122	300491	108	390	1	2.0	600	1	
122	300491	108	380	1	2.0	530	2	
122	300491	108	385	1	2.0	630	3	

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
122	300491	108	370	2	2.5	510	1	
122	300491	108	420	1	2.0	710	3	
122	300491	108	380	1	2.0	650	3	
122	300491	112	515	2	2.0	1490	3	
122	300491	112	300	1	2.0	290	0	
122	300491	112	290	1	2.0	270	0	
123	300491	112	520	1	2.0	1680	2	
123	300491	112	490	1	2.0	1330	3	
124	010591	108	415	1	2.0	790	2	
124	010591	108	410	1	2.0	720	2	
124	010591	108	415	1	2.0	790	1	
124	010591	108	425	1	2.0	790	2	
124	010591	108	455	1	2.0	980	2	
126	010591	112	520	2	2.0	1580	2	5 COMB JELLIES, AMPHIPODS,EUPHAUSIIDS
126	010591	112	530	1	2.0	1780	3	EUPHAUSIIDS
126	010591	112	585	1	2.0	2160	2	EUPHAUSIIDS
127	010591	112	610	2	2.5	2250	3	EUPHAUSIIDS,3 COMB JELLIES, AMPHIPODS
127	010591	112	550	1	2.0	2020	2	EUPHAUSIIDS
127	010591	112	490	2	2.5	1350	3	EUPHAUSIIDS
127	010591	112	570	2	2.5	1880	2	EUPHAUSIIDS
127	010591	112	520	2	2.5	1550	2	EUPHAUSIIDS
127	010591	112	500	1	2.0	1450	2	EUPHAUSIIDS,5 COMB JELLIES
127	010591	112	620	2	2.5	2580	2	
127	010591	118	550	2	3.0	2380	3	EUPHAUSIIDS
127	010591	118	500	2	2.5	1740	3	EUPHAUSIIDS
127	010591	118	540	2	2.5	2000	3	EUPHAUSIIDS
127	010591	118	530	1	2.5	1870	3	EUPHAUSIIDS
127	010591	118	530	1	2.5	1820	2	EUPHAUSIIDS
127	010591	118	530	2	2.5	1810	2	EUPHAUSIIDS
127	010591	118	480	1	3.0	1480	2	EUPHAUSIIDS
127	010591	118	490	2	2.5	1480	3	EUPHAUSIIDS
127	010591	118	550	2	3.0	2210	3	EUPHAUSIIDS
129	020591	112	515	2	2.5	1480	3	COPEPODS
129	020591	112	545	1	2.0	1780	2	COPEPODS
129	020591	112	515	2	2.5	1520	2	COPEPODS
129	020591	112	565	1	2.0	2000	3	COPEPODS
129	020591	118	560	1	2.0	2000	3	1 MYCTOPHID
129	020591	118	530	1	2.0	1780	3	COPEPODS
129	020591	118	500	2	2.5	1530	2	1 MYCTOPHID
132	030591	118	530	2	2.5	1820	0	
134	030591	108	420	1	2.0	1060	2	COPEPODS
134	030591	112	600	2	2.5	2500	2	EUPHAUSIIDS
134	030591	112	560	1	3.0	2040	2	EUPHAUSIIDS

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
134	030591	112	560	2	3.0	2070	2	EUPHAUSIIDS
134	030591	112	560	1	2.5	1800	3	EUPHAUSIIDS
134	030591	112	480	2	2.5	1300	2	EUPHAUSIIDS
134	030591	118	560	2	2.5	2160	2	EUPHAUSIIDS
134	030591	118	530	2	2.5	1870	2	EUPHAUSIIDS
134	030591	118	520	2	2.5	1950	2	EUPHAUSIIDS
134	030591	118	490	1	2.5	1410	2	EUPHAUSIIDS
134	030591	118	520	1	2.0	1730	2	EUPHAUSIIDS+2 SMALL SQUID
134	030591	118	540	2	2.5	1830	2	EUPHAUSIIDS,COPEPODS
134	030591	118	530	2	2.5	1960	2	COPEPODS
134	030591	118	520	2	2.5	1750	2	EUPHAUSIIDS
134	030591	118	440	1	2.0	930	2	EUPHAUSIIDS,AMPHIPODS
134	030591	118	480	1	2.0	1600	2	EUPHAUSIIDS,COPEPODS
134	030591	118	530	2	3.0	1780	2	EUPHAUSIIDS
134	030591	118	510	2	2.5	1770	3	EUPHAUSIIDS,COPEPODS,1 MYCTOPHID (5cm)
134	030591	118	520	2	2.0	1720	2	EUPHAUSIIDS,COPEPODS, * A. PHARAO ATTACK? DEEP SCAR RUNNING *
134	030591	118	540	2	3.0	1900	3	* POSTERIO-VENTRALLY FROM DORSAL FIN. *
134	030591	118	510	2	2.5	1950	2	* WOUND HAD CUT RIGHT THROUGH BODY FLAP.*
134	030591	118	530	2	2.5	2070	2	
134	030591	118	520	2	2.0	1820	3	
134	030591	118	530	2	3.0	1880	2	
134	030591	118	510	2	3.0	1690	2	
134	030591	118	540	2	2.5	2030	2	
134	030591	118	490	2	2.5	1500	2	
134	030591	118	520	2	2.5	1890	2	
134	030591	118	500	2	2.5	1730	2	
134	030591	118	470	2	2.5	1300	2	
134	030591	118	480	2	2.5	1430	2	
134	030591	118	510	1	2.5	1560	3	
135	030591	118	460	2	2.5	1170	2	
136	030591	108	430	1	2.5	950		
136	030591	108	510	1	2.5	1580		
136	030591	108	480	1	2.5	1210		
136	030591	108	500	1	2.0	1350		
136	030591	108	490	1	2.5	1270		
136	030591	108	470	1	2.5	1100		
136	030591	108	480	1	3.0	1130		
136	030591	108	460	1	2.5	1020		
136	030591	108	500	1	2.5	1540	2	
136	030591	108	500	1	2.5	1230	2	
136	030591	108	460	1	2.5	1040	2	
136	030591	108	440	1	2.5	1080	2	
136	030591	108	450	1	2.5	940	3	

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
136	030591	108	430	1	2.5	860	2	
136	030591	108	450	1	2.5	880	3	
136	030591	112	520					
136	030591	112	620					
136	030591	112	500					
136	030591	112	540					
136	030591	112	580					
136	030591	112	540					
136	030591	112	520					
136	030591	112	600					
136	030591	112	540					
136	030591	112	610					
136	030591	112	580					
136	030591	112	510					
136	030591	112	530					
136	030591	118	440					
136	030591	118	480					
136	030591	118	490					
136	030591	118	470					
136	030591	118	500					
136	030591	118	500					
136	030591	118	530					
136	030591	118	540					
136	030591	118	470					
136	030591	118	470					
136	030591	118	500					
136	030591	118	480					
136	030591	118	460					
136	030591	118	520					
136	030591	118	520					
136	030591	118	450					
136	030591	118	520					
136	030591	118	490					
136	030591	118	470					
136	030591	118	460					
136	030591	118	490					
136	030591	118	510	1	3.0	1700	2	
136	030591	118	530	2	2.5	1880	2	
136	030591	118	430	2	2.0	1000	2	
136	030591	118	270	2	2.0	190	2	
136	030591	118	470	2	2.5	1250	2	
136	030591	118	470	2	2.5	1080	2	
136	030591	118	470	2	3.0	1350	2	

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
136	030591	118	480	2	2.5	1300	2	
136	030591	118	530	2	2.5	1570	2	
136	030591	118	510	1	2.5	1450	2	
136	030591	118	540	1	2.5	1740	2	
136	030591	118	540	2	2.5	1800	2	
137	040591	108	420	1	2.0	790	1	
137	040591	108	430	1	2.0	820	2	
137	040591	108	420	1	2.0	810	1	
137	040591	108	455	1	2.0	1000	1	
137	040591	108	450	1	2.0	980	1	
137	040591	108	425	1	2.0	870	2	
137	040591	108	420	2	3.0	880	1	
137	040591	108	455	1	2.0	1020	1	
137	040591	108	410	1	2.0	720	1	
137	040591	108	425	1	2.0	790	2	
137	040591	108	440	1	2.0	880	2	
137	040591	108	415	1	2.0	960	2	
137	040591	108	425	1	2.0	910	1	
137	040591	108	430	1	2.0	880	2	
137	040591	108	420	1	2.0	790	1	
137	040591	108	405	1	2.0	730	1	
138	040591	108	400	1	2.0	740	1	
138	040591	108	420	1	2.0	870	1	
139	040591	108	430	1	2.5	850	3	COPEPODS
139	040591	108	390	2	2.5	670	3	COPEPODS
139	040591	108	400	2	2.5	760	3	COPEPODS
139	040591	108	390	1	2.5	580	3	COPEPODS
139	040591	108	410	2	2.5	710	3	COPEPODS,1 PIECE FISH REMAINS
139	040591	108	400	1	2.5	670	0	COPEPODS
139	040591	108	400	1	2.5	680	2	COPEPODS
139	040591	108	420	1	2.5	780	2	COPEPODS
139	040591	108	390	1	2.5	650	3	COPEPODS
139	040591	108	390	2	2.5	680	2	COPEPODS
139	040591	108	400	1	2.5	700	3	COPEPODS,1 PIECE FISH REMAINS
139	040591	108	410	1	2.0	720	3	COPEPODS
139	040591	108	380	1	2.5	620	3	COPEPODS
139	040591	108	400	1	2.5	660	3	COPEPODS
139	040591	108	400	1	2.5	740	3	COPEPODS
139	040591	108	390	1	2.5	660	3	COPEPODS
139	040591	108	400	1	2.5	730	3	COPEPODS
139	040591	108	400	2	2.5	720	2	COPEPODS
139	040591	108	400	1	2.5	700	2	COPEPODS
139	040591	108	400	1	2.5	660	2	COPEPODS

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
139	040591	108	480	1	2.5	1040	2	COPEPODS
139	040591	108	390	2	2.5	600	2	COPEPODS
139	040591	108	380	2	2.5	690	3	COPEPODS
139	040591	108	400	1	2.5	650	3	COPEPODS
139	040591	108	390	1	2.5	670	3	COPEPODS
139	040591	108	395	2	2.5	590	2	
139	040591	108	380	2	2.5	700	2	COPEPODS
139	040591	108	380	1	2.5	670	3	COPEPODS
139	040591	108	380	2	2.5	720	2	COPEPODS
139	040591	108	365	2	2.5	610	3	COPEPODS
139	040591	108	385	1	2.5	680	3	COPEPODS
139	040591	118	460	2	2.0	1180	3	COPEPODS
139	040591	118	450	1	2.0	1120	2	EUPHAUSIIDS
140	040591	108	385					
140	040591	108	415					
140	040591	108	375					
140	040591	108	435					
140	040591	108	375					
140	040591	108	425					
140	040591	108	395					
140	040591	108	385					
140	040591	108	415					
140	040591	108	395					
140	040591	108	415					
140	040591	108	395					
140	040591	108	415					
140	040591	108	375					
140	040591	108	415					
140	040591	108	395					
140	040591	108	365					
140	040591	108	415					
140	040591	108	395					
140	040591	108	415					
140	040591	108	375					
140	040591	108	425					
140	040591	108	405					
140	040591	108	420	1	2.5	810	3	EUPHAUSIIDS,COPEPODS
140	040591	108	380	1	2.5	600	4	COPEPODS
140	040591	108	430	1	2.5	770	3	EUPHAUSIIDS,COPEPODS
140	040591	108	410	1	2.5	760	3	EUPHAUSIIDS
140	040591	108	400	1	2.5	780	3	EUPHAUSIIDS,COPEPODS
140	040591	108	440	1	2.5	920	3	COPEPODS
140	040591	108	430	1	2.5	920	3	EUPHAUSIIDS,2 SQUID

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
140	040591	108	420	1	2.5	780	3	COPEPODS
140	040591	108	430	1	2.5	920	2	EUPHAUSIIDS
140	040591	108	400	2	2.5	750	3	COPEPODS
140	040591	108	410	1	2.5	840	3	
140	040591	108	410	2	2.5	820	3	
140	040591	108	400	2	2.5	770	2	
140	040591	108	400	2	2.5	740	4	
140	040591	108	370	1	2.5	620	3	
140	040591	108	410	1	2.5	790	3	
140	040591	108	450	1	2.5	1010	3	
140	040591	108	420	2	2.5	910	3	
140	040591	108	440	1	2.5	880	3	
140	040591	108	410	1	2.5	780	3	
140	040591	108	400	1	2.5	770	3	
140	040591	108	430	1	2.5	900	2	
140	040591	108	420	2	2.5	890	2	
140	040591	108	420	1	2.5	860	2	
140	040591	108	420	1	2.5	860	3	
141	050591	108	425					
141	050591	108	415					
141	050591	108	395					
141	050591	108	405					
141	050591	108	395					
141	050591	108	375					
141	050591	108	415					
141	050591	108	405					
141	050591	108	395					
141	050591	108	415					
141	050591	108	375					
141	050591	108	395					
141	050591	108	410	2	2.5	690	3	
141	050591	108	400	2	2.5	730	2	
141	050591	108	430	1	2.5	880	3	
141	050591	108	415	1	2.5	720	2	
141	050591	108	375	2	2.5	570	2	
141	050591	108	420	1	2.5	790	2	
141	050591	108	410	2	2.5	760	2	
141	050591	108	390	2	2.5	680	3	
141	050591	108	390	2	2.5	700	3	
141	050591	108	405	2	2.5	760	3	
141	050591	108	420	2	2.5	840	2	
141	050591	108	405	1	2.5	730	2	
141	050591	108	400	2	2.5	780	2	

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
141	050591	108	395	2	2.5	740	2	
141	050591	108	390	2	2.5	720	3	
141	050591	108	390	2	2.5	720	2	
141	050591	108	400	1	2.5	730	3	
141	050591	108	400	1	2.5	750	2	
141	050591	108	410	1	2.5	760	3	
141	050591	108	420	2	2.5	850	2	
141	050591	108	410	2	2.5	760	3	
141	050591	108	415	2	2.5	850	2	
141	050591	108	430	1	2.5	990	2	
141	050591	108	420	1	2.5	860	2	
141	050591	108	425	1	2.5	880	2	
141	050591	108	420	1	2.5	870	2	
141	050591	108	420	1	2.5	900	3	
141	050591	108	420	1	2.5	860	2	
141	050591	108	415	2	2.5	780	2	
141	050591	108	405	2	2.5	830	2	
141	050591	108	400	1	2.0	800	3	
141	050591	108	375	2	2.5	670	2	
141	050591	108	375	2	2.5	650	3	
141	050591	108	430	1	2.5	870	2	
141	050591	108	400	2	2.5	780	2	
141	050591	108	390	2	2.5	730	2	
141	050591	108	390	2	2.5	730	2	
141	050591	108	400	1	2.5	780	2	
141	050591	108	420	2	3.0	840	2	
141	050591	108	370	2	2.5	720	2	
141	050591	108	400	2	2.5	800	3	
141	050591	108	415	1	2.5	850	2	
141	050591	108	400	1	2.5	780	2	
141	050591	108	390	1	2.5	690	2	
141	050591	108	390	1	2.5	720	2	
141	050591	108	420	2	2.5	870	2	
141	050591	108	430	1	2.5	930	2	
141	050591	108	410	2	3.0	900	2	
141	050591	108	440	1	2.5	950	3	
141	050591	108	420	2	2.5	900	3	
141	050591	112	550	1	2.0	1510	2	
141	050591	118	440	2	2.0	1000		
141	050591	118	420	2	2.0	950		
141	050591	118	420	2	2.0	960		
141	050591	118	410	1	2.0	770		
141	050591	118	350	1	2.0	550		

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
141	050591	118	340	1	2.0	530		
141	050591	118	320	1	2.0	480		
141	050591	118	290	1	2.0	410		
143	060591	108	380	2	2.5	560	2	1 MYCTOPHID,COPEPODS
143	060591	108	370	1	2.5	550	2	COPEPODS,EUPHAUSIIDS
143	060591	108	380	2	2.5	620	2	AMPHIPODS
143	060591	108	370	1	2.5	580	2	AMPHIPODS
143	060591	108	380	2	2.5	630	2	AMPHIPODS
143	060591	108	360	1	2.5	560	2	AMPHIPODS
143	060591	112	630	1	2.5	3250	2	MYCTOPHIDS
143	060591	112	490	1	2.5	1860	2	FISH REMAINS,JELLY
143	060591	112	430	1	2.5	960	2	WHITE GELATINOUS GRANULAR MASS (CTENOPHORES)
143	060591	112	420	1	2.5	850	2	WHITE GELATINOUS GRANULAR MASS (CTENOPHORES)
143	060591	112	380	1	2.5	660	2	WHITE GELATINOUS GRANULAR MASS (CTENOPHORES)
144	070591	108	380	2	2.0	530	0	
144	070591	108	375	1	2.0	560	0	
144	070591	108	400	2	2.0	650	0	AMPHIPODS
144	070591	108	400	2	2.0	680	0	
144	070591	108	365	2	2.5	500	1	
144	070591	108	360	2	2.5	480	0	
144	070591	108	375	1	2.0	570	1	
144	070591	108	345	1	2.0	460	0	
144	070591	108	375	2	2.5	550	1	
144	070591	108	370	1	2.0	570	1	
144	070591	108	370	2	3.0	540	1	
144	070591	108	390	2	3.0	600	0	
144	070591	108	400	1	2.0	640	1	
144	070591	108	415	1	2.0	730	1	
144	070591	108	360	2	3.0	520	0	
144	070591	108	380	2	3.0	580	1	
144	070591	108	390	2	2.5	640	0	
144	070591	108	370	2	3.0	470	0	
144	070591	108	410	2	3.0	720	1	
144	070591	108	365	2	3.0	520	0	
144	070591	108	380	2	3.0	570	1	
144	070591	108	430	2	3.0	870	3	
144	070591	108	355	2	3.0	510	0	
144	070591	108	365	2	2.5	490	0	
144	070591	108	360	1	2.0	480	0	
144	070591	108	380	2	3.0	570	1	
144	070591	108	365	1	2.0	470	1	
144	070591	108	375	2	3.0	570	1	
144	070591	108	385	1	2.0	580	1	

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
144	070591	108	375	2	3.0	550	0	
144	070591	108	360	1	2.0	490	1	
144	070591	108	410	1	2.0	650	1	
144	070591	108	385	1	2.0	560	0	
144	070591	108	335	2	2.5	400	0	
144	070591	108	410	1	2.0	800	4	
144	070591	108	370	2	2.5	540	0	
144	070591	108	400	1	2.0	640	0	
144	070591	108	370	1	2.0	520	1	
144	070591	108	390	2	2.5	580	0	
144	070591	108	350	2	2.5	480	1	
144	070591	108	420	1	2.0	730	4	
144	070591	108	400	1	2.0	720	0	
144	070591	108	370	1	2.0	520	1	
144	070591	108	350	2	2.0	480	0	
144	070591	108	355	1	2.0	520	0	
144	070591	108	385	1	2.0	640	1	
144	070591	108	350	1	2.0	500	1	
144	070591	108	340	2	2.5	440	1	
144	070591	108	370	2	2.5	540	1	
144	070591	108	390	1	2.0	590	0	
144	070591	108	325					
144	070591	108	335					
144	070591	108	345					
144	070591	108	355					
144	070591	108	355					
144	070591	108	355					
144	070591	108	355					
144	070591	108	355					
144	070591	108	355					
144	070591	108	365					
144	070591	108	365					
144	070591	108	365					
144	070591	108	365					
144	070591	108	365					
144	070591	108	365					
144	070591	108	365					
144	070591	108	365					
144	070591	108	365					
144	070591	108	365					
144	070591	108	365					
144	070591	108	365					

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
144	070591	108	375					
144	070591	108	375					
144	070591	108	375					
144	070591	108	375					
144	070591	108	375					
144	070591	108	375					
144	070591	108	375					
144	070591	108	375					
144	070591	108	375					
144	070591	108	375					
144	070591	108	375					
144	070591	108	375					
144	070591	108	375					
144	070591	108	375					
144	070591	108	375					
144	070591	108	375					
144	070591	108	385					
144	070591	108	385					
144	070591	108	385					
144	070591	108	385					
144	070591	108	385					
144	070591	108	385					
144	070591	108	385					
144	070591	108	385					
144	070591	108	385					
144	070591	108	385					
144	070591	108	385					
144	070591	108	385					
144	070591	108	385					
144	070591	108	385					
144	070591	108	385					
144	070591	108	385					
144	070591	108	395					
144	070591	108	395					
144	070591	108	395					
144	070591	108	395					
144	070591	108	395					
144	070591	108	395					
144	070591	108	395					
144	070591	108	395					

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
144	070591	108	395					
144	070591	108	395					
144	070591	108	405					
144	070591	108	405					
144	070591	108	405					
144	070591	108	405					
144	070591	108	405					
144	070591	108	405					
144	070591	108	405					
144	070591	108	405					
144	070591	108	405					
144	070591	108	405					
144	070591	108	405					
144	070591	108	405					
144	070591	108	405					
144	070591	108	405					
144	070591	108	405					
144	070591	108	405					
144	070591	108	405					
144	070591	108	415					
144	070591	108	415					
144	070591	108	415					
144	070591	108	415					
144	070591	108	425					
144	070591	108	425					
144	070591	108	425					
144	070591	112	245					
144	070591	112	255					
144	070591	112	265					
144	070591	112	265					
144	070591	112	275					
144	070591	112	275					
144	070591	112	275					
144	070591	112	275					
144	070591	112	275					
144	070591	112	275					
144	070591	112	275					
144	070591	112	275					
144	070591	112	285					
144	070591	112	285					
144	070591	112	285					
144	070591	112	285					

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
144	070591	112	285					
144	070591	112	285					
144	070591	112	285					
144	070591	112	285					
144	070591	112	285					
144	070591	112	285					
144	070591	112	285					
144	070591	112	285					
144	070591	112	295					
144	070591	112	295					
144	070591	112	295					
144	070591	112	295					
144	070591	112	295					
144	070591	112	295					
144	070591	112	295					
144	070591	112	295					
144	070591	112	295					
144	070591	112	295					
144	070591	112	295					
144	070591	112	295					
144	070591	112	305					
144	070591	112	315					
144	070591	112	315					
144	070591	112	315					
144	C70591	112	405					
144	070591	112	415					
144	070591	112	415					
144	070591	112	425					
144	070591	112	425					
144	070591	112	425					
144	070591	112	435					
144	070591	112	445					
144	070591	112	445					
144	070591	112	445					
144	070591	112	495					
144	070591	112	420	1	2.0	720	1	
144	070591	112	430	1	2.0	830	1	
144	070591	112	445	1	2.0	910	1	
144	070591	112	420	1	2.0	740	1	
144	070591	112	290	1	2.0	270	1	
144	070591	112	325	2	2.0	330	1	
144	070591	112	425	1	2.0	830	0	
144	070591	112	300	1	2.0	270	1	

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
144	070591	112	305	1	2.0	290	1	
144	070591	112	260	1	2.0	220	1	
144	070591	112	300	1	2.0	250	0	
144	070591	112	290	1	2.0	270	1	
144	070591	112	310	1	2.0	340	2	
144	070591	112	300	2	2.0	260	2	
144	070591	112	270	1	2.0	210	1	
144	070591	112	295	2	2.0	240	1	
144	070591	112	280	1	2.0	230	1	
144	070591	112	275	1	2.0	220	1	
144	070591	112	310	2	2.0	320	0	
144	070591	112	270	1	2.0	220	0	
144	070591	112	280	2	2.0	200	1	
144	070591	112	295	2	2.0	270	1	
144	070591	112	270	2	2.0	220	1	
144	070591	112	280	2	2.0	240	1	
144	070591	112	315	1	2.0	330	1	
144	070591	112	305	1	2.0	310	1	
144	070591	112	315	1	2.0	320	1	
144	070591	112	285	1	2.0	240	1	
144	070591	112	305	2	2.0	280	1	
144	070591	112	245	2	2.0	170	0	
144	070591	112	285	2	2.0	260	1	
144	070591	112	265	1	2.0	260	1	
144	070591	112	305	2	2.0	280	0	
144	070591	112	275	1	2.0	220	1	
144	070591	112	280	1	2.0	250	1	
144	070591	112	280	2	2.0	250	1	
144	070591	112	280	1	2.0	240	1	
144	070591	112	310	1	2.0	300	0	
144	070591	112	265	2	2.0	210	0	
144	070591	112	290	2	2.0	260	0	
144	070591	112	275	1	2.0	210	1	
144	070591	112	275	1	2.0	230	1	
144	070591	112	280	1	2.0	210	1	
144	070591	112	280	1	2.0	220	1	
144	070591	112	275	1	2.0	240	0	
144	070591	112	285	1	2.0	220	0	
144	070591	112	285	1	2.0	240	0	
144	070591	112	285	1	2.0	170	0	
144	070591	112	415	2	2.5	690	1	
144	070591	112	460	2	2.5	980	1	
145	070591	108	370	1	2.5	520	2	

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
145	070591	108	370	2	2.5	540	3	
145	070591	108	370	2	2.5	540	3	
145	070591	108	370	1	2.5	540	2	
145	070591	108	370	1	2.5	600	3	
145	070591	108	395	2	2.0	600	2	
145	070591	108	390	2	2.5	600	3	
145	070591	108	395	1	2.5	620	3	
145	070591	108	390	1	2.5	580	3	
145	070591	108	375	2	2.5	530	2	COPEPODS
145	070591	108	375	1	2.5	560	3	COPEPODS
145	070591	108	375	1	2.5	570	3	COPEPODS
145	070591	108	330	2	2.5	380	3	COPEPODS
145	070591	108	415	1	2.5	730	3	COPEPODS
145	070591	108	350	1	2.5	470	2	COPEPODS
145	070591	108	325	2	2.5	400	3	COPEPODS
145	070591	108	370	2	2.5	540	2	COPEPODS
145	070591	108	375	2	2.5	550	2	COPEPODS
145	070591	108	375	2	2.5	540	3	COPEPODS
145	070591	108	350	2	2.5	500	3	COPEPODS
145	070591	108	375	2	2.5	560	3	
145	070591	108	365	1	2.5	520	3	
145	070591	108	390	1	2.5	600	2	
145	070591	108	370	1	2.5	540	3	
145	070591	108	365	2	2.5	520	3	
145	070591	108	390	2	2.5	610	3	
145	070591	108	390	2	2.5	640	2	
145	070591	108	385	1	2.5	600	2	
145	070591	108	405	2	2.5	730	2	
145	070591	108	385	2	2.5	580	3	
145	070591	108	365	1	2.5	530	2	
145	070591	108	375	2	2.5	560	3	
145	070591	108	365	2	2.5	500	3	
145	070591	108	375	1	2.5	550	2	
145	070591	108	305	1	2.5	320	3	
145	070591	108	400	1	2.5	670	3	
145	070591	108	380	2	2.5	570	3	
145	070591	108	375	2	2.5	550	4	
145	070591	108	400	2	2.5	700	3	
145	070591	108	350	1	2.5	430	3	
145	070591	108	390	1	2.5	670	4	
145	070591	108	345	1	2.5	440	3	
145	070591	108	410	1	2.5	690	3	
145	070591	108	360	2	2.5	470	3	

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
145	070591	108	390	2	2.5	630	3	
145	070591	108	385	2	2.5	590	3	
145	070591	108	390	1	2.0	580	3	
145	070591	108	380	2	2.5	550	3	
145	070591	108	390	2	2.5	660	3	
145	070591	108	410	2	2.0	740	3	
145	070591	108	345					
145	070591	108	355					
145	070591	108	355					
145	070591	108	365					
145	070591	108	365					
145	070591	108	375					
145	070591	108	375					
145	070591	108	375					
145	070591	108	375					
145	070591	108	385					
145	070591	108	385					
145	070591	108	385					
145	070591	108	395					
145	070591	108	395					
145	070591	108	395					
145	070591	108	395					
145	070591	108	405					
145	070591	108	405					
145	070591	108	425					
145	070591	108	455					
145	070591	112	280	1	2.0	220	2	COPEPODS
145	070591	112	290	2	2.0	250	2	COPEPODS
145	070591	112	360	2	2.0	500	2	EUPHAUSIIDS
145	070591	112	420	2	2.5	720	2	WHITE GELATINOUS GRANULAR MASS (CTENOPHORES)
145	070591	112	420	2	2.5	740	2	COPEPODS
145	070591	112	410	1	2.0	670	2	EMPTY STOMACH
145	070591	112	415	1	2.0	730	2	
145	070591	112	430	1	2.0	870	3	
145	070591	112	500	1	2.0	1300	2	
145	070591	112	390	2	2.0	560	2	
145	070591	112	440	2	2.5	1000	2	
145	070591	112	430	1	2.0	850	2	
145	070591	112	430	2	2.5	830	3	
145	070591	112	510	1	2.5	1640	2	
145	070591	118	420	1	2.0	880	3	EMPTY STOMACH
145	070591	118	420	1	2.0	880	3	COPEPODS
145	070591	118	410	2	2.0	780	3	COPEPODS

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
145	070591	118	405	2	2.0	780	2	COPEPODS
145	070591	118	395	2	2.0	700	3	COPEPODS
145	070591	118	450	1	2.0	1000	2	COPEPODS
145	070591	118	430	1	2.0	980	2	COPEPODS
145	070591	118	400	2	2.0	670	3	COPEPODS
145	070591	118	405	2	2.0	740	2	COPEPODS
145	070591	118	415	2	2.0	830	3	COPEPODS
145	070591	118	465	2	2.0	1220	3	
145	070591	118	415	2	2.0	840	2	
145	070591	118	375	1	2.0	550	2	
145	070591	118	400	2	2.0	660	3	
145	070591	118	370	2	2.0	560	4	
145	070591	118	455	2	2.0	1050	3	
145	070591	118	435	1	2.0	940	3	
145	070591	118	405	2	2.0	750	2	
145	070591	118	405	2	2.0	820	2	
145	070591	118	365	2	2.0	550	2	
145	070591	118	410	1	2.0	790	3	
145	070591	118	375	1	2.0	620	3	
145	070591	118	405	2	2.0	780	3	
145	070591	118	465	1	2.0	1210	3	
145	070591	118	450	2	2.0	960	3	
145	070591	118	420	1	2.0	820	2	
145	070591	118	445	1	2.0	1000	3	
145	070591	118	450	2	2.0	1110	3	
145	070591	118	420	1	2.0	830	2	
145	070591	118	400	2	2.0	780	2	
145	070591	118	400	1	2.0	650	3	
145	070591	118	390	1	2.0	660	3	
145	070591	118	415	1	2.0	820	3	
145	070591	118	405	2	2.0	730	2	
145	070591	118	410	2	2.0	780	3	
145	070591	118	435	1	2.0	900	2	
145	070591	118	420	1	2.0	770	2	
145	070591	118	460	1	2.0	980	3	
145	070591	118	400	2	2.0	670	2	
145	070591	118	385	2	2.0	630	2	
145	070591	118	310	1	2.0	320	2	
145	070591	118	280	1	2.0	230	2	
145	070591	118	275	1	2.0	210	2	
145	070591	118	320	1	2.0	370	2	
145	070591	118	305	1	2.0	320	3	
145	070591	118	415	2	2.0	770	2	

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
145	070591	118	445	2	2.0	1040	2	
145	070591	118	435	1	2.0	950	2	
145	070591	118	415	2	2.0	840	2	
145	070591	118	405	2	2.0	760	3	
145	070591	118	385					
145	070591	118	385					
145	070591	118	395					
145	070591	118	395					
145	070591	118	395					
145	070591	118	395					
145	070591	118	395					
145	070591	118	405					
145	070591	118	405					
145	070591	118	405					
145	070591	118	405					
145	070591	118	405					
145	070591	118	405					
145	070591	118	405					
145	070591	118	405					
145	070591	118	405					
145	070591	118	405					
145	070591	118	415					
145	070591	118	415					
145	070591	118	415					
145	070591	118	415					
145	070591	118	425					
145	070591	118	425					
145	070591	118	425					
145	070591	118	425					
145	070591	118	425					
145	070591	118	425					
145	070591	118	425					
145	070591	118	435					
145	070591	118	435					
145	070591	118	435					
145	070591	118	435					
145	070591	118	435					
145	070591	118	435					
145	070591	118	445					
145	070591	118	445					
145	070591	118	445					
145	070591	118	455					
145	070591	118	455					

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
145	070591	124	560	1	2.0	2320	2	EMPTY STOMACH
145	070591	124	310	1	2.0	390	2	3 SMALL SQUID (1 cm)
146	070591	108	385	2	2.5	580	3	COPEPODS
146	070591	108	405	2	2.5	730	3	COPEPODS,CHAETOGNATHA
146	070591	108	405	1	2.5	710	3	COPEPODS
146	070591	108	370	1	2.5	500	3	COPEPODS
146	070591	108	420	1	2.5	750	4	COPEPODS
146	070591	108	415	2	2.5	630	4	COPEPODS
146	070591	118	470	1	2.0	1130	2	COPEPODS
147	080591	108	445	1	2.5	930	3	
147	080591	108	370	2	2.5	490	3	
147	080591	108	400	2	2.5	660	3	
147	080591	108	370	1	2.5	500	2	
147	080591	108	390	2	2.5	680	2	
147	080591	108	370	2	2.5	490	3	
147	080591	108	370	2	2.5	490		
147	080591	108	360	2	2.5	470	3	
147	080591	108	370	2	2.5	480	3	
147	080591	108	410	2	2.5	710	2	
147	080591	108	370	2	2.5	470	2	
147	080591	108	390	1	2.5	560	3	
147	080591	108	410	1	2.5	610	3	
147	080591	108	380	2	2.5	510	2	
147	080591	108	380	2	2.5	560	2	
147	080591	108	420	2	2.5	700	2	
147	080591	108	405	1	2.5	620	3	
147	080591	108	380	2	2.5	510	3	
147	080591	108	370	1	2.5	500	2	
147	080591	108	440	1	2.5	750	2	
147	080591	108	385	1	2.5	560	3	
147	080591	108	400	1	2.5	670	3	
147	080591	108	405	1	2.5	600	2	
147	080591	112	600	2	3.0	2750	2	
147	080591	112	550	1	2.5	1760	2	
147	080591	112	510	2	2.5	1520	2	
147	080591	112	480	1	2.5	1170	2	
147	080591	112	570	1	2.5	2100	2	
147	080591	112	510	1	2.5	1270	2	
147	080591	112	500	2	2.5	1100	2	
147	080591	118	480	1	2.0	1150	3	
147	080591	118	460	2	2.5	1050	2	
147	080591	118	450	1	2.0	930	2	
147	080591	118	390	1	2.5	660	2	

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
147	080591	118	410	1	2.5	750	2	
147	080591	118	410	1	2.0	710	2	
147	080591	118	410	2	2.0	700	2	
147	080591	118	380	2	2.5	570	2	
147	080591	118	290	2	2.0	240	2	
147	080591	118	280	2	2.0	220	2	
147	080591	118	270	1	2.0	210	2	
147	080591	118	315	2	2.0	350	2	
147	080591	118	310	2	2.0	310	2	
147	080591	118	300	2	2.0	300	3	
147	080591	118	290	2	2.0	230	2	
147	080591	118	275	1	2.0	200	2	
147	080591	118	315	1	2.0	310	2	
147	080591	118	260	2	2.0	200	2	
147	080591	118	295	2	2.0	250	2	
147	080591	118	320	1	2.0	330	2	
147	080591	118	275	1	2.0	210	2	
147	080591	118	305	1	2.0	280	2	
147	080591	118	320	1	2.0	340	2	
148	080591	108	405	1	2.0	700	1	COPEPODS
148	080591	108	380	2	2.5	580	1	COPEPODS
148	080591	108	380	1	2.0	600	2	COPEPODS
148	080591	108	375	2	2.5	580	2	COPEPODS
148	080591	108	365	1	2.0	600	2	COPEPODS
148	080591	108	395	1	2.0	690	2	COPEPODS
148	080591	108	380	1	2.0	680	2	COPEPODS
148	080591	108	395	1	2.0	590	1	COPEPODS
148	080591	108	390	1	2.0	600	3	COPEPODS
148	080591	108	370	2	2.5	500	1	COPEPODS
148	080591	108	375	2	3.0	600	2	
148	080591	108	420	1	2.0	800	2	
148	080591	108	370	1	2.0	550	2	
148	080591	108	390	2	2.5	660	2	
148	080591	108	400	1	2.0	730	2	
148	080591	108	390	1	2.0	610	1	
148	080591	108	380	1	2.0	530	2	
148	080591	108	395	1	2.0	700	2	
148	080591	108	390	1	2.0	600	3	
148	080591	108	380	1	2.0	570	2	
148	080591	108	400	2	3.0	670	2	
148	080591	108	390	1	2.0	640	2	
148	080591	108	345	1	2.0	440	2	
148	080591	108	400	1	2.0	650	2	

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
148	080591	108	390	2	3.0	650	2	
148	080591	108	365	1	2.0	520	2	
148	080591	108	380	1	2.0	630	2	
148	080591	108	400	1	2.0	620	3	
148	080591	108	375	2	2.5	610	2	
148	080591	108	360	1	2.0	560	3	
148	080591	108	360	2	3.0	560	2	
148	080591	108	395	2	2.5	630	3	
148	080591	108	400	2	3.0	640	2	
148	080591	108	380	1	2.0	670	2	
148	080591	108	340	1	2.0	430	2	
148	080591	108	390	1	2.0	660	2	
148	080591	108	375	1	2.0	570	2	
148	080591	108	390	2	2.0	720	2	
148	080591	108	375	2	2.5	550	3	
148	080591	108	380	1	2.0	570	2	
148	080591	108	415	2	2.5	770	2	
148	080591	108	380	1	2.0	570	2	
148	080591	108	400	2	3.0	670	2	
148	080591	108	390	2	3.0	720	2	
148	080591	108	360	2	2.5	560	2	
148	080591	108	385	2	2.5	630	2	
148	080591	108	400	2	2.5	670	2	
148	080591	108	375	2	2.5	580	2	
148	080591	108	390	2	2.5	610	2	
148	080591	108	380	2	2.5	550	2	
148	080591	108	325					
148	080591	108	365					
148	080591	108	365					
148	080591	108	365					
148	080591	108	365					
148	080591	108	375					
148	080591	108	375					
148	080591	108	375					
148	080591	108	375					
148	080591	108	375					
148	080591	108	375					
148	080591	108	375					
148	080591	108	385					
148	080591	108	385					
148	080591	108	385					
148	080591	108	385					

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
148	080591	108	385					
148	080591	108	385					
148	080591	108	385					
148	080591	108	385					
148	080591	108	385					
148	080591	108	385					
148	080591	108	385					
148	080591	108	395					
148	080591	108	395					
148	080591	108	395					
148	080591	108	405					
148	080591	108	405					
148	080591	108	405					
148	080591	108	425					
148	080591	112	480	1	2.0	1210	0	EMPTY
148	080591	112	500	2	2.5	1260	0	EMPTY
148	080591	112	440	1	2.0	860	0	EMPTY
148	080591	112	460	1	2.0	980	0	EMPTY
148	080591	112	430	1	2.0	880	0	EMPTY
148	080591	112	440	1	2.0	920	0	EMPTY
148	080591	112	480	2	2.5	1120	1	EUPHAUSIID REMAINS
148	080591	112	570	1	2.0	1980	2	EUPHAUSIID REMAINS
148	080591	112	480	2	2.0	1030	1	EUPHAUSIID REMAINS
148	080591	112	465	2	2.0	1130	0	EMPTY
148	080591	112	440	2	2.5	970	0	EMPTY
148	080591	112	510	2	3.0	1590	0	EMPTY
148	080591	112	420	1	2.0	740	0	EMPTY
148	080591	112	440	2	2.5	840	0	EMPTY
148	080591	112	425	2	2.5	810	0	EMPTY
148	080591	112	520	2	2.5	1610	0	
148	080591	118	310	1	2.0	310	1	EUPHAUSIID REMAINS
148	080591	118	300	1	2.0	280	2	EUPHAUSIID REMAINS
148	080591	118	290	1	2.0	220	2	EUPHAUSIID REMAINS
148	080591	118	330	1	2.0	360	2	EUPHAUSIID REMAINS
148	080591	118	315	1	2.0	330	2	EUPHAUSIID REMAINS
148	080591	118	295	2	2.0	270	1	EUPHAUSIID REMAINS
148	080591	118	305	2	2.0	300	2	EUPHAUSIID REMAINS
148	080591	118	335	1	2.0	380	1	EUPHAUSIID REMAINS
148	080591	118	405	2	2.5	770	2	EUPHAUSIID REMAINS
148	080591	118	430	1	2.0	890	2	EUPHAUSIID REMAINS
148	080591	118	420	1	2.0	860	2	EUPHAUSIID REMAINS
148	080591	118	390	1	2.0	660	2	EUPHAUSIID REMAINS
148	080591	118	420	2	2.0	810	2	EUPHAUSIID REMAINS

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
148	080591	118	405	2	2.5	790	2	EUPHAUSIID REMAINS
148	080591	118	405	2	2.0	650	2	EUPHAUSIID REMAINS
148	080591	118	460	2	2.5	1140	2	
148	080591	118	430	2	2.5	830	2	
148	080591	118	400	1	2.0	710	2	
148	080591	118	365	2	2.5	570	2	
148	080591	118	390	2	2.5	670	2	
148	080591	118	450	2	2.5	1010	2	
148	080591	118	415	1	2.0	760	1	
148	080591	118	395	2	2.5	740	1	
148	080591	118	330	1	2.0	400	1	
148	080591	118	335	1	2.0	360	1	
148	080591	118	265					
148	080591	118	275					
148	080591	118	275					
148	080591	118	275					
148	080591	118	275					
148	080591	118	275					
148	080591	118	285					
148	080591	118	285					
148	080591	118	285					
148	080591	118	285					
148	080591	118	285					
148	080591	118	295					
148	080591	118	295					
148	080591	118	295					
148	080591	118	295					
148	080591	118	295					
148	080591	118	295					
148	080591	118	295					
148	080591	118	295					
148	080591	118	295					
148	080591	118	295					
148	080591	118	295					
148	080591	118	305					
148	080591	118	305					
148	080591	118	305					
148	080591	118	305					
148	080591	118	305					
148	080591	118	305					
148	080591	118	305					
148	080591	118	305					
148	080591	118	305					

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
148	080591	118	305					
148	080591	118	305					
148	080591	118	305					
148	080591	118	305					
148	080591	118	305					
148	080591	118	315					
148	080591	118	315					
148	080591	118	315					
148	080591	118	315					
148	080591	118	315					
148	080591	118	315					
148	080591	118	315					
148	080591	118	315					
148	080591	118	315					
148	080591	118	315					
148	080591	118	315					
148	080591	118	315					
148	080591	118	325					
148	080591	118	325					
148	080591	118	335					
148	080591	118	335					
148	080591	118	335					
148	080591	118	335					
148	080591	118	345					
148	080591	118	345					
148	080591	118	345					
148	080591	118	345					
148	080591	118	365					
148	080591	118	365					
148	080591	118	375					
148	080591	118	385					
148	080591	118	385					
148	080591	118	385					
148	080591	118	385					
148	080591	118	395					
148	080591	118	395					
148	080591	118	395					
148	080591	118	405					
148	080591	118	405					
148	080591	118	405					
148	080591	118	405					
148	080591	118	405					

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
148	080591	118	415					
148	080591	118	415					
148	080591	118	415					
148	080591	118	415					
148	080591	118	415					
148	080591	118	415					
148	080591	118	415					
148	080591	118	425					
148	080591	118	425					
148	080591	118	425					
148	080591	118	435					
148	080591	118	435					
148	080591	118	435					
148	080591	118	435					
148	080591	118	435					
148	080591	118	445					
148	080591	118	445					
148	080591	118	445					
148	080591	118	445					
148	080591	118	455					
148	080591	118	455					
148	080591	118	455					
148	080591	118	465					
149	080591	108	400	1	2.5	650	3	COPEPODS,1 SMALL SQUID (2 CM)
149	080591	108	405	2	2.5	680	4	COPEPODS
149	080591	108	395	2	2.5	640	3	COPEPODS
149	080591	108	400	1	2.5	700	3	COPEPODS
149	080591	108	405	1	2.5	750	3	COPEPODS
149	080591	108	425	1	2.5	810	3	COPEPODS
149	080591	108	405	1	2.5	740	4	COPEPODS
149	080591	108	380	2	2.5	660	3	COPEPODS
149	080591	108	400	1	2.5	720	3	COPEPODS
149	080591	108	410	2	2.5	790	3	COPEPODS
149	080591	108	425	1	2.5	920	3	
149	080591	108	400	1	2.5	750	3	
149	080591	108	400	1	2.5	690	3	
149	080591	108	420	2	2.5	730	3	
149	080591	108	405	1	2.5	780	3	
149	080591	108	390	1	2.5	660	3	
149	080591	108	410	2	2.5	720	4	
149	080591	108	390	1	2.5	690	3	
149	080591	108	415	2	2.5	830	4	
149	080591	108	425	2	2.5	810	3	

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
149	080591	108	395	1	2.5	780	3	
149	080591	108	395	2	2.5	750	4	
149	080591	108	390	1	2.5	670	3	
149	080591	108	380	2	2.5	730	4	
149	080591	108	400	1	2.5	700	3	
149	080591	108	405					
149	080591	108	415					
149	080591	108	415					
149	080591	108	425					
149	080591	108	425					
149	080591	108	425					
149	080591	108	435					
150	090591	108	420	1	2.0	700	2	
150	090591	108	400	1	2.0	680	1	
150	090591	108	420	1	2.0	850	2	
150	090591	108	405	1	2.0	700	2	
150	090591	108	440	1	2.0	870	1	
150	090591	108	400	1	2.0	620	1	
150	090591	108	395	2	3.0	640	2	
150	090591	108	385	1	2.0	630	2	
150	090591	108	420	2	3.0	820	2	
150	090591	108	395	1	2.0	570	2	
150	090591	108	410	1	2.0	630	3	
150	090591	108	410	1	2.0	780	2	
150	090591	108	400	1	2.0	640	2	
150	090591	108	430	1	2.0	800	2	
150	090591	108	390	1	2.0	530	2	
150	090591	108	430	1	2.0	700	3	
150	090591	108	380	1	2.0	570	2	
150	090591	108	405	1	2.0	740	2	
150	090591	108	410	1	2.0	720	3	
150	090591	108	410	2	2.5	730	2	
150	090591	108	420	1	2.0	730	3	
150	090591	108	390	2	2.5	670	3	
150	090591	108	425	2	2.5	840	3	
150	090591	108	405	1	2.0	730	2	
150	090591	108	395	1	2.0	710	2	
150	090591	108	390	1	2.0	660	3	
150	090591	108	420	2	2.5	720	2	
150	090591	112	490	2	3.0	1160	0	
150	090591	112	470	2	3.0	1050	0	
150	090591	112	475	2	3.0	1030	0	
150	090591	118	275	1	2.0	240	0	

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
150	090591	118	275	2	2.0	240	1	
150	090591	118	265	1	2.0	240	1	
150	090591	118	285	1	2.0	240	1	
150	090591	118	280	1	2.0	210	1	
150	090591	118	295	1	2.0	280	1	
150	090591	118	275	1	2.0	210	1	
150	090591	118	240	1	2.0	150	1	
150	090591	118	215	1	2.0	100	1	
151	090591	108	405	1	2.5	830	3	COPEPODS
151	090591	108	470	1	2.5	1130	3	COPEPODS,PTEROPODS,1 SMALL SQUID (2cm)
151	090591	108	410	2	2.0	830	3	COPEPODS
151	090591	108	400	1	2.0	790	2	COPEPODS
151	090591	108	435	1	3.0	1030	2	COPEPODS
151	090591	108	425	1	2.0	970	1	COPEPODS
151	090591	108	390	1	2.0	730	3	COPEPODS
151	090591	108	400	1	2.0	730	3	COPEPODS
151	090591	108	430	1	2.0	840	2	COPEPODS
151	090591	108	430	2	2.0	880	2	COPEPODS
151	090591	108	415	1	2.0	810	2	COPEPODS
151	090591	108	400	1	2.0	810	2	
151	090591	108	400	1	2.0	700	2	
151	090591	108	410	1	2.0	930	3	
151	090591	108	410	2	2.5	850	2	
151	090591	108	400	2	2.5	850	2	
151	090591	108	410	2	2.5	920	2	
151	090591	108	400	2	2.5	750	2	
151	090591	108	450	1	2.0	1000	3	
151	090591	108	400	1	2.0	850	2	
151	090591	108	445	1	2.0	940	2	
151	090591	108	410	2	2.0	820	3	
151	090591	108	410	1	2.0	740	2	
151	090591	108	435	1	2.0	1100	3	
151	090591	108	420	1	2.0	930	2	
151	090591	108	445	1	2.0	1070	2	
151	090591	108	435	1	2.0	910	3	
151	090591	108	390	1	2.0	760	3	
151	090591	108	415	1	2.5	930	3	
151	090591	108	450	1	2.5	1060	3	
151	090591	108	430	1	2.0	950	3	
151	090591	108	400	1	2.5	820	2	
151	090591	108	420	1	2.0	910	2	
151	090591	108	410	2	2.5	790	3	
151	090591	108	400	1	2.5	810	2	

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
151	090591	108	415	1	2.0	850	3	
151	090591	108	395	1	3.0	720	2	
151	090591	108	390	2	2.0	770	2	
151	090591	108	430	1	2.5	910	3	
151	090591	108	400	1	2.5	820	3	
151	090591	108	420	1	2.5	970	3	
151	090591	108	405	1	2.5	830	3	
151	090591	108	410	1	2.5	780	2	
151	090591	108	395	1	2.0	780	2	
151	090591	108	420	1	2.5	880	3	
151	090591	108	420	1	2.0	970	3	
151	090591	108	440	1	2.5	980	3	
151	090591	108	405	1	2.5	920	3	
151	090591	108	415	1	2.0	890	2	
151	090591	108	400	1	2.5	840	3	
151	090591	108	375					
151	090591	108	385					
151	090591	108	385					
151	090591	108	385					
151	090591	108	385					
151	090591	108	385					
151	090591	108	395					
151	090591	108	395					
151	090591	108	395					
151	090591	108	395					
151	090591	108	395					
151	090591	108	395					
151	090591	108	395					
151	090591	108	395					
151	090591	108	395					
151	090591	108	405					
151	090591	108	405					
151	090591	108	405					
151	090591	108	405					
151	090591	108	405					
151	090591	108	405					
151	090591	108	405					
151	090591	108	405					
151	090591	108	405					
151	090591	108	405					
151	090591	108	405					
151	090591	108	405					

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
151	090591	108	405					
151	090591	108	405					
151	090591	108	405					
151	090591	108	405					
151	090591	108	405					
151	090591	108	415					
151	090591	108	415					
151	090591	108	415					
151	090591	108	415					
151	090591	108	415					
151	090591	108	415					
151	090591	108	415					
151	090591	108	415					
151	090591	108	415					
151	090591	108	415					
151	090591	108	415					
151	090591	108	415					
151	090591	108	415					
151	090591	108	415					
151	090591	108	415					
151	090591	108	425					
151	090591	108	425					
151	090591	108	425					
151	090591	108	425					
151	090591	108	425					
151	090591	108	425					
151	090591	108	425					
151	090591	108	425					
151	090591	108	425					
151	090591	108	425					
151	090591	108	425					
151	090591	108	435					
151	090591	108	435					
151	090591	108	435					
151	090591	108	435					
151	090591	108	435					
151	090591	108	435					
151	090591	108	435					
151	090591	108	435					
151	090591	108	435					
151	090591	108	445					
151	090591	108	445					

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
151	090591	108	445					
151	090591	108	445					
151	090591	108	485					
151	090591	108						
151	090591	108						
151	090591	108						
151	090591	112	515	1	2.0	1670	2	
152	090591	108	370	2	2.5	510	2	AMPHIPODS,1 HYPERIID
152	090591	108	410	1	2.5	720	4	EUPHAUSIIDS,3 SMALL SQUID (2 cm)
152	090591	108	430	1	2.5	880	4	AMPHIPODS,COPEPODS
152	090591	108	405	2	2.5	710	3	EUPHAUSIIDS,AMPHIPODS
152	090591	108	380	2	2.5	600	2	AMPHIPODS,CHAETOGNATHA
152	090591	108	370	2	2.5	570	4	AMPHIPODS,COPEPODS,CHAETOGNATHA
152	090591	108	410	1	2.5	750	4	EUPHAUSIIDS,3 SMALL SQUID (2 cm)
152	090591	108	390	2	2.5	700	3	EUPHAUSIIDS,AMPHIPODS
152	090591	108	450	1	2.5	960	3	AMPHIPODS,CHAETOGNATHA
152	090591	108	365	2	2.5	500	3	EUPHAUSIIDS,AMPHIPODS
152	090591	108	400	1	2.5	620	3	EUPHAUSIIDS
152	090591	108	410	2	2.5	730	3	
152	090591	108	420	1	2.5	780	4	
152	090591	108	380	2	2.5	610	3	
152	090591	112	540	1	2.0	1700	2	
152	090591	124	750	1	2.5	6300	2	
153	100591	108	385	2	3.0	480	2	
153	100591	108	380	2	2.5	550	1	
153	100591	108	380	2	2.5	550	3	
153	100591	108	385	2	3.0	560	1	
153	100591	108	370	2	2.5	530	2	
153	100591	108	415	1	2.0	600	2	
153	100591	108	370	1	2.0	560	1	
153	100591	108	390	1	2.0	560	3	
153	100591	108	410	1	2.0	720	3	
153	100591	108	395	2	2.5	650	2	
153	100591	108	400	2	3.0	590	2	
153	100591	108	415	1	2.5	680	3	
153	100591	108	390	2	3.0	620	2	
153	100591	108	370	1	2.5	550	3	
153	100591	108	380	1	2.5	570	3	
153	100591	108	390	2	2.5	580	2	
153	100591	108	365	1	2.0	540	2	
153	100591	108	415	2	3.0	730	3	
153	100591	108	390	1	2.0	630	2	
153	100591	108	410	1	2.0	660	3	

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
153	100591	108	390	2	3.0	620	2	
153	100591	108	380	2	3.0	490	2	
153	100591	108	395	1	2.0	610	2	
153	100591	108	385	1	2.0	590	2	
153	100591	108	470	1	2.0	1010	2	
153	100591	108	380	1	2.0	590	2	
153	100591	108	430	1	2.0	670	2	
153	100591	108	390	1	2.5	540	3	
153	100591	108	390	1	2.0	580	2	
153	100591	108	370	2	2.5	470	2	
153	100591	108	370	1	2.5	520	2	
153	100591	108	390	2	2.5	560	2	
153	100591	108	360	1	2.0	510	2	
153	100591	108	410	1	2.5	660	3	
153	100591	108	410	1	2.5	660	2	
153	100591	108	410	1	2.5	660	3	
153	100591	108	390	1	2.5	550	3	
153	100591	108	450	1	2.5	940	3	
153	100591	108	375	2	2.5	530	3	
153	100591	108	370	2	3.0	510	2	
153	100591	108	380	1	2.0	560	2	
153	100591	108	375	1	2.5	540	2	
153	100591	108	375	1	2.5	570	2	
153	100591	108	380	2	2.5	560	2	
153	100591	108	385	1	2.0	580	3	
153	100591	108	355	1	2.5	540	3	
153	100591	108	410	2	3.0	680	3	
153	100591	108	395	1	2.0	660	3	
153	100591	108	390	2	2.5	600	2	
153	100591	108	385	2	3.0	520	2	
153	100591	108	355					
153	100591	108	365					
153	100591	108	365					
153	100591	108	365					
153	100591	108	365					
153	100591	108	365					
153	100591	108	365					
153	100591	108	375					
153	100591	108	375					
153	100591	108	375					
153	100591	108	375					
153	100591	108	375					
153	100591	108	375					

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
153	100591	108	375					
153	100591	108	375					
153	100591	108	375					
153	100591	108	375					
153	100591	108	375					
153	100591	108	375					
153	100591	108	375					
153	100591	108	385					
153	100591	108	385					
153	100591	108	385					
153	100591	108	385					
153	100591	108	385					
153	100591	108	385					
153	100591	108	385					
153	100591	108	385					
153	100591	108	385					
153	100591	108	385					
153	100591	108	395					
153	100591	108	395					
153	100591	108	395					
153	100591	108	395					
153	100591	108	405					
153	100591	108	405					
153	100591	108	405					
153	100591	108	405					
153	100591	108	415					
153	100591	108	415					
153	100591	108	415					
153	100591	112	550	1	2.0	1720	2	
153	100591	112	530	1	2.0	1620	1	
153	100591	112	560	1	2.0	1730	1	
153	100591	112	530	1	2.0	1610	1	
153	100591	112	500	1	2.0	1380	1	
153	100591	112	480	2	3.0	1160	2	
153	100591	112	500	1	2.0	1210	1	
153	100591	112	485	2	2.5	1300	1	
153	100591	112	555	2	3.0	1570	1	
153	100591	112	290	2	2.0	220	1	
153	100591	112	265	1	2.0	200	1	
154	100591	108	410	2	2.5	640	2	
154	100591	108	395	2	2.5	570	2	
154	100591	108	395	2	2.5	590	1	CHAETOGNATHA

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
154	100591	108	360	2	2.5	460	1	COPEPODS
154	100591	108	375	2	2.5	520	1	CHAETOGNATHA
154	100591	108	365	1	2.5	480	1	EMPTY
154	100591	108	345	2	2.5	510	2	COPEPODS
154	100591	108	355	2	2.5	540	1	COPEPODS
154	100591	108	335	1	2.0	390	2	COPEPODS
154	100591	108	360	2	3.0	510	1	COPEPODS
154	100591	108	335	2	2.	420	1	COPEPODS
154	100591	108	350	2	2.5	490	2	CHAETOGNATHA
154	100591	108	380	2	3.0	560	2	
154	100591	108	390	2	3.0	600	2	
154	100591	108	375	2	3.0	540	2	
154	100591	108	390	1	2.0	610	2	
154	100591	108	360	2	2.5	470	2	
154	100591	112	460	1	1.0	930	1	DIGESTED EUPHAUSIIDS
154	100591	115	510	1	2.0	1440	2	SPECIES CODE 115 = COHO SQUID,FISH REMAINS
154	100591	118	370	2	2.0	680	1	
154	100591	118	305	1	2.0	330	2	
154	100591	118	310	1	2.0	320	2	
154	100591	118	315	1	2.0	370	2	COPEPODS
154	100591	118	310	2	2.0	340	2	COPEPODS
155	100591	108	385	2	2.5	580	2	COPEPODS
155	100591	108	385	1	2.5	560	3	COPEPODS
155	100591	108	370	2	2.5	600	3	CHAETOGNATHA
155	100591	108	385	2	2.5	580	3	COPEPODS
155	100591	108	330	1	2.5	400	3	CHAETOGNATHA
155	100591	108	345	2	2.5	470	3	CHAETOGNATHA
155	100591	108	385	2	2.5	590	3	CHAETOGNATHA
155	100591	108	340	1	2.5	450	3	COPEPODS
155	100591	108	380	1	2.5	550	4	CHAETOGNATHA
155	100591	108	355	2	2.5	490	3	CHAETOGNATHA
155	100591	108	355	1	2.5	500	3	
155	100591	108	360	2	2.5	490	3	
155	100591	108	360	2	2.5	520	3	
155	100591	108	420	2	2.5	730	2	
155	100591	108	350	2	2.5	460	3	
155	100591	108	325	2	2.5	370	3	
155	100591	108	365	2	2.5	570	3	
155	100591	108	400	2	2.5	620	2	
155	100591	108	400	2	2.5	600	3	
155	100591	108	350	2	2.5	460	3	
155	100591	108	360	2	2.5	470	3	
155	100591	108	375	2	2.5	530	4	

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
155	100591	108	355	1	2.5	480	2	
155	100591	108	350	2	2.5	440	3	
155	100591	108	360	1	2.5	510	3	
155	100591	108	290	1	2.5	280	3	
155	100591	108	405	2	2.5	610	3	
155	100591	108	360	1	2.5	500	3	
155	100591	108	360	1	2.5	470	3	
155	100591	108	380	2	2.5	540	2	
155	100591	108	340	2	2.5	410	1	
155	100591	108	375	2	2.5	530	3	
155	100591	108	360	2	2.5	510	3	
155	100591	108	340	2	2.5	380	4	
155	100591	108	360	2	2.5	470	2	
155	100591	108	350	2	2.5	460	4	
155	100591	108	380	2	2.5	530	2	
155	100591	108	400	2	2.5	580	2	
155	100591	108	360	1	2.5	440	3	
155	100591	108	375	2	2.5	530	3	
155	100591	108	360	1	2.5	430	3	
155	100591	108	380	1	2.5	550	2	
155	100591	108	320	1	2.5	330	3	
155	100591	108	350	2	2.5	430	2	
155	100591	108	340	2	2.5	380	3	
155	100591	108	375	2	2.5	500	2	
155	100591	108	370	1	2.5	440	3	
155	100591	108	400	2	2.5	630	2	
155	100591	108	390	1	2.5	570	2	
155	100591	108	370	2	2.5	510	2	
155	100591	108	335					
155	100591	108	335					
155	100591	108	345					
155	100591	108	345					
155	100591	108	355					
155	100591	108	355					
155	100591	108	355					
155	100591	108	355					
155	100591	108	355					
155	100591	108	365					
155	100591	108	365					
155	100591	108	365					
155	100591	108	365					
155	100591	108	365					
155	100591	108	365					

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
155	100591	108	365					
155	100591	108	365					
155	100591	108	365					
155	100591	108	365					
155	100591	108	365					
155	100591	108	375					
155	100591	108	375					
155	100591	108	375					
155	100591	108	375					
155	100591	108	375					
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155	100591	108	375					
155	100591	108	375					
155	100591	108	375					
155	100591	108	375					
155	100591	108	375					
155	100591	108	375					

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
155	100591	108	375					
155	100591	108	385					
155	100591	108	385					
155	100591	108	385					
155	100591	108	385					
155	100591	108	385					
155	100591	108	385					
155	100591	108	385					
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155	100591	108	385					
155	100591	108	385					
155	100591	108	385					
155	100591	108	395					
155	100591	108	395					
155	100591	108	395					
155	100591	108	395					
155	100591	108	395					
155	100591	108	395					
155	100591	108	395					
155	100591	108	395					
155	100591	108	395					
155	100591	108	395					
155	100591	108	395					
155	100591	108	395					

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
155	100591	108	395					
155	100591	108	395					
155	100591	108	395					
155	100591	108	395					
155	100591	108	395					
155	100591	108	395					
155	100591	108	395					
155	100591	108	405					
155	100591	108	405					
155	100591	108	405					
155	100591	108	405					
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155	100591	108	405					
155	100591	108	405					
155	100591	108	405					
155	100591	108	405					
155	100591	108	405					
155	100591	108	405					
155	100591	108	415					
155	100591	108	415					
155	100591	108	415					
155	100591	108	415					
155	100591	108	415					
155	100591	108	415					
155	100591	108	415					
155	100591	108	415					

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
155	100591	108	415					
155	100591	108	415					
155	100591	108	415					
155	100591	108	415					
155	100591	108	415					
155	100591	108	415					
155	100591	108	415					
155	100591	108	425					
155	100591	108	425					
155	100591	108	425					
155	100591	108	425					
155	100591	108	425					
155	100591	108	425					
155	100591	108	435					
155	100591	108	435					
157	110591	112	450	1	2.0	970	2	
157	110591	112	480	2	2.5	1170	2	
158	110591	112	265	2	2.0	220	1	
158	110591	112	275	2	2.0	220	1	
158	110591	112	260	2	2.0	170	1	
158	110591	112	290	1	2.0	260	2	
158	110591	112	285	1	2.0	200	2	
158	110591	112	270	2	2.0	210	1	
158	110591	112	275	1	2.0	210	2	
158	110591	112	310	1	2.0	310	2	
158	110591	112	275	1	2.0	240	2	
158	110591	112	285	2	2.0	290	2	
158	110591	112	300	1	2.0	290	2	
158	110591	112	290	1	2.0	230	2	
158	110591	112	285	2	2.0	220	2	
158	110591	112	285	1	2.0	240	2	
158	110591	112	285	1	2.0	210	2	
158	110591	112	270	1	2.0	200	2	
158	110591	112	285	1	2.0	230	2	
158	110591	112	280	1	2.0	210	2	
158	110591	112	280	1	2.0	210	2	
158	110591	112	280	1	2.0	230	2	
158	110591	112	275	2	2.0	180	2	
158	110591	112	285	1	2.0	240	2	
158	110591	112	285	1	2.0	270	2	
158	110591	112	285	2	2.0	280	2	
158	110591	112	280	1	2.0	210	2	
158	110591	112	300	1	2.0	210	2	

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
158	110591	112	280	1	2.0	180	2	
158	110591	112	290	1	2.0	230	2	
158	110591	112	295	2	2.0	230	2	
158	110591	112	310	1	2.0	300	2	
158	110591	112	300	1	2.0	210	2	
158	110591	112	280	2	2.0	230	2	
158	110591	112	300	1	2.0	240	2	
158	110591	112	280	2	2.0	180	2	
158	110591	112	280	1	2.0	190	2	
158	110591	112	290	1	2.0	260	2	
158	110591	112	285	1	2.0	230	2	
158	110591	112	300	2	2.0	230	2	
158	110591	112	275	1	2.0	180	2	
158	110591	112	275	1	2.0	200	2	
158	110591	112	285	1	2.0	230	2	
158	110591	112	295	1	2.0	260	2	
158	110591	112	275	1	2.0	220	2	
158	110591	112	290	1	2.0	240	2	
158	110591	112	280	1	2.0	220	2	
158	110591	112	270	1	2.0	180	2	
158	110591	112	280	1	2.0	230	2	
158	110591	112	270	1	2.0	230	2	
158	110591	112	430	2	2.0	800	1	
158	110591	112	445	1	2.0	910	2	
158	110591	112	245					
158	110591	112	245					
158	110591	112	255					
158	110591	112	255					
158	110591	112	255					
158	110591	112	265					
158	110591	112	265					
158	110591	112	265					
158	110591	112	265					
158	110591	112	265					
158	110591	112	265					
158	110591	112	265					
158	110591	112	265					
158	110591	112	265					
158	110591	112	265					
158	110591	112	265					
158	110591	112	265					
158	110591	112	265					
158	110591	112	265					

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
158	110591	112	265					
158	110591	112	265					
158	110591	112	265					
158	110591	112	265					
158	110591	112	265					
158	110591	112	265					
158	110591	112	265					
158	110591	112	265					
158	110591	112	265					
158	110591	112	265					
158	110591	112	275					
158	110591	112	275					
158	110591	112	275					
158	110591	112	275					
158	110591	112	275					
158	110591	112	275					
158	110591	112	275					
158	110591	112	275					
158	110591	112	275					
158	110591	112	275					
158	110591	112	275					
158	110591	112	275					
158	110591	112	275					
158	110591	112	275					
158	110591	112	275					
158	110591	112	275					
158	110591	112	275					
158	110591	112	275					
158	110591	112	275					
158	110591	112	275					
158	110591	112	275					
158	110591	112	275					
158	110591	112	275					
158	110591	112	275					
158	110591	112	275					
158	110591	112	275					
158	110591	112	275					
158	110591	112	275					
158	110591	112	275					
158	110591	112	275					
158	110591	112	275					
158	110591	112	275					
158	110591	112	275					

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
158	110591	112	275					
158	110591	112	275					
158	110591	112	285					
158	110591	112	285					
158	110591	112	285					
158	110591	112	285					
158	110591	112	285					
158	110591	112	285					
158	110591	112	285					
158	110591	112	285					
158	110591	112	285					
158	110591	112	285					
158	110591	112	285					
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158	110591	112	285					
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158	110591	112	285					
158	110591	112	285					
158	110591	112	285					
158	110591	112	285					
158	110591	112	285					
158	110591	112	285					
158	110591	112	285					
158	110591	112	285					
158	110591	112	285					
158	110591	112	285					
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158	110591	112	285					
158	110591	112	285					
158	110591	112	285					
158	110591	112	285					
158	110591	112	285					
158	110591	112	285					
158	110591	112	285					
158	110591	112	285					
158	110591	112	285					
158	110591	112	285					
158	110591	112	285					
158	110591	112	285					
158	110591	112	285					

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
158	110591	112	285					
158	110591	112	285					
158	110591	112	285					
158	110591	112	285					
158	110591	112	285					
158	110591	112	285					
158	110591	112	285					
158	110591	112	285					
158	110591	112	285					
158	110591	112	285					
158	110591	112	285					
158	110591	112	285					
158	110591	112	285					
158	110591	112	285					
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158	110591	112	285					
158	110591	112	285					
158	110591	112	285					
158	110591	112	285					
158	110591	112	285					
158	110591	112	285					
158	110591	112	295					
158	110591	112	295					
158	110591	112	295					
158	110591	112	295					
158	110591	112	295					
158	110591	112	295					
158	110591	112	295					
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158	110591	112	295					
158	110591	112	295					
158	110591	112	295					
158	110591	112	295					
158	110591	112	295					
158	110591	112	295					
158	110591	112	295					

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
158	110591	112	295					
158	110591	112	295					
158	110591	112	295					
158	110591	112	295					
158	110591	112	295					
158	110591	112	295					
158	110591	112	295					
158	110591	112	295					
158	110591	112	295					
158	110591	112	295					
158	110591	112	295					
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158	110591	112	295					
158	110591	112	295					
158	110591	112	295					
158	110591	112	295					
158	110591	112	295					
158	110591	112	305					
158	110591	112	305					
158	110591	112	305					
158	110591	112	305					
158	110591	112	305					
158	110591	112	305					
158	110591	112	305					
158	110591	112	305					
158	110591	112	305					
158	110591	112	305					
158	110591	112	305					
158	110591	112	305					
158	110591	112	315					
158	110591	112	315					

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
158	110591	112	315					
158	110591	112	315					
158	110591	112	325					
159	110591	108	385	2	2.5	560	3	CHAETOGNATHA
159	110591	108	460	1	2.5	900	2	EMPTY
159	110591	108	450	1	2.5	800	2	CHAETOGNATHA
159	110591	108	380	2	2.5	560	3	CHAETOGNATHA
159	110591	108	380	2	2.5	590	3	CHAETOGNATHA
159	110591	108	390	2	2.5	610	4	CHAETOGNATHA
159	110591	108	380	2	2.5	580	3	CHAETOGNATHA
159	110591	108	360	2	2.5	470	3	CHAETOGNATHA
159	110591	108	380	1	2.5	600	4	EUPHAUSIIDS
159	110591	108	380	1	2.5	550	3	
159	110591	108	375	2	2.5	590	3	
159	110591	108	390	2	2.5	600	3	
159	110591	108	355	1	2.5	460	3	
159	110591	108	360	1	2.5	500	3	
159	110591	108	385	2	3.0	540	4	
159	110591	108	380	2	2.5	570	3	
159	110591	108	365	2	3.0	520	4	
159	110591	108	360	2	2.5	510	4	
159	110591	112	390	1	2.0	810	2	
159	110591	112	420	1	2.0	870	2	
159	110591	112	320	1	2.0	400	3	
159	110591	112	305	1	2.0	370	3	AMPHIPODS,CHAETOGNATHA
159	110591	112	410	1	2.0	790	2	AMPHIPODS,CHAETOGNATHA
159	110591	112	295	1	2.0	370	3	AMPHIPODS,CHAETOGNATHA
159	110591	112	285	1	2.0	340	3	AMPHIPODS,CHAETOGNATHA
159	110591	112	345	1	2.0	500	3	AMPHIPODS,CHAETOGNATHA
159	110591	112	400	1	2.0	670	3	AMPHIPODS,CHAETOGNATHA
159	110591	112	360	1	2.0	630	3	AMPHIPODS,CHAETOGNATHA
159	110591	112	400	2	2.0	740	3	AMPHIPODS,CHAETOGNATHA
159	110591	112	380	1	2.0	590	2	AMPHIPODS,CHAETOGNATHA
159	110591	115	450	2	2.5	880	3	
159	110591	115	515	1	2.0	1300	2	
159	110591	115	545	2	2.5	1930	3	
159	110591	124	300	2	2.0	300	3	
159	110591	124	275	2	2.0	290	2	EMPTY STOMACH
161	120591	108	285	2	3.0	560	1	
161	120591	108	360	2	3.0	460	1	
161	120591	108	355	2	2.5	450	1	
161	120591	108	380	1	2.0	510	1	
161	120591	108	370	2	2.5	490	1	

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
161	120591	108	400	1	2.0	570	1	
161	120591	108	360	2	2.5	450	1	
161	120591	108	390	1	2.0	610	1	
161	120591	112	585	1	2.0	1960	2	
161	120591	112	455	1	2.0	870	1	
161	120591	112	405	2	2.0	630	2	
161	120591	115	390	1	2.0	720	2	
162	120591	108						
162	120591	108						
162	120591	108						
162	120591	108						
162	120591	108	540	2	2.5	1630	3	WHITE GELATINOUS GRANULAR MASS (CTENOPHORES)
162	120591	112	535	1	2.0	1680	2	WHITE GELATINOUS GRANULAR MASS (CTENOPHORES)
162	120591	112	495	1	2.0	1350	2	WHITE GELATINOUS GRANULAR MASS (CTENOPHORES)
162	120591	118	290	1	2.0	280	1	
162	120591	118	290	1	2.0	280	1	
162	120591	118	305	1	2.0	350	1	
162	120591	118	310	1	2.0	340	2	
162	120591	118	310	1	2.0	340	2	
162	120591	118	295	1	2.0	300	2	
162	120591	118	300	1	2.0	300	1	
162	120591	118	285	2	2.0	270	1	
162	120591	118	325	2	2.0	380	2	
162	120591	118	310	2	2.0	330	3	
162	120591	118	345	1	2.0	420	2	
162	120591	118	320	1	2.0	350	3	
162	120591	118	275	1	2.0	240	2	
162	120591	118	295	1	2.0	320	1	
162	120591	118	430	2	2.0	790	3	
162	120591	118	455	2	2.0	1050	2	PTEROPODS,CHAETOGNATHA
163	120591	108	440	1	2.5	930	3	EUPHAUSIIDS,AMPHIPODS,COPEPODS
163	120591	108	395	1	2.5	680	3	CHAETOGNATHA,AMPHIPODS,COPEPODS
163	120591	108	375	1	2.5	600	3	EUPHAUSIIDS,PTEROPODS
163	120591	108	385	2	2.5	670	3	EMPTY STOMACH
163	120591	108	410	1	2.5	650	3	CHAETOGNATHA,PTEROPODS,COPEPODS
163	120591	108	380	2	2.5	560	3	COPEPODS
163	120591	108	415	1	2.5	670	3	PTEROPODS,CHAETOGNATHA
163	120591	108	380	2	2.5	550	4	PTEROPODS,CHAETOGNATHA
163	120591	108	375	1	2.5	600	3	PTEROPODS,CHAETOGNATHA,COPEPODS
163	120591	108	370	2	2.5	520	2	EUPHAUSIIDS,LARVAL FISH
163	120591	108	380	1	3.0	500	4	
163	120591	108	380	1	2.5	640	3	

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
163	120591	108	375	1	2.5	570	3	
163	120591	108	385	2	2.5	570	3	
163	120591	108	365	2	2.5	480	3	
163	120591	108	365	2	2.5	520	3	
163	120591	108	375	1	2.5	480	2	
163	120591	112	540	1	2.5	2070	4	WHITE GELATINOUS GRANULAR MASS (CTENOPHORES)
163	120591	112	610	1	2.5	2530	2	WHITE GELATINOUS GRANULAR MASS (CTENOPHORES)
163	120591	112	580	2	2.5	2130	3	MYCTOPHIDS,WHITE GELATINOUS GRANULAR MASS (CTENOPHORES)
163	120591	112	570	1	2.5	1860	3	WHITE GELATINOUS GRANULAR MASS (CTENOPHORES)
163	120591	112	560	1	2.5	1850	3	WHITE GELATINOUS GRANULAR MASS (CTENOPHORES)
163	120591	112	550	1	2.5	1720	3	WHITE GELATINOUS GRANULAR MASS (CTENOPHORES)
163	120591	112	500	2	2.5	1540	3	WHITE GELATINOUS GRANULAR MASS (CTENOPHORES)
163	120591	112	490	1	2.5	1470	4	WHITE GELATINOUS GRANULAR MASS (CTENOPHORES)
163	120591	112	500	1	2.0	1510	2	WHITE GELATINOUS GRANULAR MASS (CTENOPHORES)
163	120591	112	480	2	2.5	1300	3	WHITE GELATINOUS GRANULAR MASS (CTENOPHORES)
163	120591	112	460	1	2.0	1120	2	WHITE GELATINOUS GRANULAR MASS (CTENOPHORES)
163	120591	118	445	1	2.0	1080	3	PTEROPODS
163	120591	118	420	1	2.5	910	2	PTEROPODS,COPEPODS
163	120591	118	425	1	2.5	750	2	EUPHAUSIIDS,AMPHIPODS
164	130591	108	400	1	2.0	650	3	
164	130591	108	390	2	2.0	530	2	
164	130591	108	400	1	2.0	640	2	
164	130591	108	370	2	2.0	580	2	
164	130591	108	350	1	2.0	580	2	
164	130591	108	370	1	2.0	590	2	
164	130591	108	385	1	2.0	590	2	
164	130591	108	375	1	2.0	570	2	
164	130591	108	405	2	2.5	650	2	
164	130591	108	390	1	2.0	640	2	
164	130591	108	370	1	2.0	580	2	
164	130591	108	380	2	2.5	510	2	
164	130591	108	385	2	2.0	580	2	
164	130591	108	380	2	2.5	560	2	
164	130591	108	375	2	2.0	540	2	
164	130591	108	385	2	2.0	610	2	
164	130591	108	385	2	2.0	570	2	
164	130591	108	390	1	2.0	580	2	
164	130591	108	380	1	2.0	590	2	
164	130591	108	410	1	2.0	680	3	
164	130591	108	370	2	2.0	540	3	
164	130591	108	390	1	2.0	680	2	
164	130591	108	380	2	2.0	620	2	
164	130591	108	405	1	2.5	680	2	

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
164	130591	108	380	1	2.0	640	2	
164	130591	108	410	2	2.0	710	2	
164	130591	108	380	2	2.0	600	2	
164	130591	108	395	2	2.5	620	2	
164	130591	108	395	1	2.0	600	2	
164	130591	108	390	1	2.0	580	2	
164	130591	108	380	1	2.0	580	2	
164	130591	108	375	1	2.5	540	2	
164	130591	108	385	2	2.5	580	3	
164	130591	108	370	1	2.0	530	2	
164	130591	108	400	2	2.5	730	3	
164	130591	108	370	1	2.5	600	3	
164	130591	108	390	1	2.0	610	2	
164	130591	108	380	2	2.0	610	2	
164	130591	108	390	1	2.0	690	3	
164	130591	108	340	1	2.0	440	2	
164	130591	108	355	2	2.5	520	2	
164	130591	108	415	1	2.0	700	2	
164	130591	108	385	2	2.5	580	3	
164	130591	108	360	2	2.0	460	3	
164	130591	108	380	2	3.0	610	3	
164	130591	108	395	1	2.0	620	3	
164	130591	108	380	1	2.0	560	2	
164	130591	108	360	1	2.0	480	2	
164	130591	108	375	2	2.0	600	3	
164	130591	108	370	2	3.0	540	3	
164	130591	108	325					
164	130591	108	345					
164	130591	108	345					
164	130591	108	355					
164	130591	108	355					
164	130591	108	355					
164	130591	108	355					
164	130591	108	365					
164	130591	108	365					
164	130591	108	365					
164	130591	108	365					
164	130591	108	365					
164	130591	108	365					
164	130591	108	365					
164	130591	108	365					
164	130591	108	365					
164	130591	108	375					

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
164	130591	108	375					
164	130591	108	375					
164	130591	108	375					
164	130591	108	375					
164	130591	108	375					
164	130591	108	375					
164	130591	108	375					
164	130591	108	375					
164	130591	108	375					
164	130591	108	385					
164	130591	108	385					
164	130591	108	385					
164	130591	108	385					
164	130591	108	385					
164	130591	108	385					
164	130591	108	385					
164	130591	108	385					
164	130591	108	385					
164	130591	108	385					
164	130591	108	405					
164	130591	108	405					
164	130591	108	405					
164	130591	108	405					
164	130591	112	560	2	2.5	1520	0	
164	130591	112	580	2	2.5	1860	0	
164	130591	112	535	1	2.0	1470	0	
164	130591	112	440	2	2.0	1070	0	
164	130591	118	440	2	2.0	920	2	
164	130591	118	430	1	2.0	870	2	
165	130591	108	375	1	2.0	650	2	COPEPODS
165	130591	108	360	1	2.0	510	2	COPEPODS
165	130591	108	400	1	2.0	730	2	COPEPODS
165	130591	108	385	1	2.0	620	2	COPEPODS,CHAETOGNATHA
165	130591	108	390	1	2.0	620	2	COPEPODS,1 SMALL SQUID (2 cm)
165	130591	108	380	1	2.0	590	2	CHAETOGNATHA
165	130591	108	385	2	2.5	640	2	COPEPODS
165	130591	108	370	1	2.0	580	2	COPEPODS
165	130591	108	410	1	2.0	670	2	COPEPODS
165	130591	108	370	2	2.5	520	3	COPEPODS
165	130591	108	395	1	2.0	620	2	COPEPODS
165	130591	108	390	2	2.5	550	2	COPEPODS,PTEROPODS
165	130591	108	380	2	2.5	590	2	COPEPODS

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
165	130591	108	368	1	2.0	520	2	COPEPODS,AMPHIPODS
165	130591	108	370	2	2.0	570	2	COPEPODS,1 SMALL SQUID
165	130591	108	385	2	2.5	560	2	
165	130591	108	410	1	2.0	670	2	
165	130591	108	375	1	2.0	540	2	
165	130591	108	390	2	2.5	600	2	
165	130591	108	355	2	2.0	490	2	
165	130591	108	385	1	2.0	590	2	
165	130591	108	380	2	2.5	540	2	
165	130591	108	375	2	2.5	550	2	
165	130591	108	380	2	2.0	540	2	
165	130591	108	430	2	3.0	780	3	
165	130591	108	430	1	2.0	790	2	
165	130591	108	390	2	2.0	630	2	
165	130591	108	380	2	2.5	580	2	
165	130591	108	370	1	2.0	550	2	
165	130591	108	395	1	2.0	590	3	
165	130591	108	385	1	2.0	560	2	
165	130591	108	450	1	2.0	830	2	
165	130591	108	395	2	2.5	680	2	
165	130591	108	420	1	2.0	710	2	
165	130591	108	385	1	2.0	610	3	
165	130591	108	380	1	2.5	560	3	
165	130591	108	370	2	2.0	540	2	
165	130591	108	300	2	2.5	610	2	
165	130591	108	395	2	3.0	590	3	
165	130591	108	400	1	2.0	640	3	
165	130591	108	385	2	3.0	620	3	
165	130591	108	370	1	2.0	580	2	
165	130591	108	375	1	2.0	630	2	
165	130591	108	370	2	2.5	600	2	
165	130591	108	355	2	2.0	560	2	
165	130591	108	360	1	2.0	530	2	
165	130591	108	355	1	2.0	530	2	
165	130591	108	355	2	2.5	540	3	
165	130591	108	365	2	3.0	560	2	
165	130591	108	350	1	2.5	520	2	
165	130591	108	345					
165	130591	108	365					
165	130591	108	365					
165	130591	108	365					
165	130591	108	365					
165	130591	108	365					

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
165	130591	108	365					
165	130591	108	365					
165	130591	108	375					
165	130591	108	375					
165	130591	108	375					
165	130591	108	375					
165	130591	108	375					
165	130591	108	375					
165	130591	108	375					
165	130591	108	375					
165	130591	108	375					
165	130591	108	375					
165	130591	108	385					
165	130591	108	385					
165	130591	108	385					
165	130591	108	385					
165	130591	108	385					
165	130591	108	385					
165	130591	108	385					
165	130591	108	385					
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165	130591	108	385					
165	130591	108	385					
165	130591	108	385					
165	130591	108	385					
165	130591	108	385					
165	130591	108	385					
165	130591	108	385					
165	130591	108	385					
165	130591	108	385					
165	130591	108	385					
165	130591	108	395					
165	130591	108	395					
165	130591	108	395					
165	130591	108	395					
165	130591	108	395					
165	130591	108	395					
165	130591	108	395					
165	130591	108	395					
165	130591	108	395					
165	130591	108	395					
165	130591	108	395					
165	130591	108	395					
165	130591	108	405					
165	130591	108	405					
165	130591	108	405					

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
165	130591	108	415					
166	130591	108	390	1	2.5	550	3	COPEPODS
166	130591	108	400	2	2.5	600	4	COPEPODS,CHAETOGNATHA
166	130591	108	410	1	2.5	660	3	COPEPODS
166	130591	108	400	2	2.5	650	3	COPEPODS
166	130591	108	400	2	2.5	670	3	COPEPODS
166	130591	108	385	2	2.5	610	2	COPEPODS
166	130591	108	395	1	2.5	590	2	COPEPODS
166	130591	108	390	2	2.5	610	3	COPEPODS,AMPHIPODS
166	130591	108	405	2	2.5	620	3	COPEPODS
166	130591	108	395	1	2.5	620	2	COPEPODS
166	130591	108	375	1	2.5	590	3	COPEPODS,AMPHIPODS,1 SMALL SQUID
166	130591	108	390	2	2.5	610	3	
166	130591	108	380	2	2.5	550	3	
166	130591	108	385	2	2.5	570	3	
166	130591	108	415	1	3.0	730	3	
166	130591	108	375	2	2.5	540	3	
166	130591	108	390	2	2.5	580	3	
166	130591	108	385	2	2.5	630	3	
166	130591	108	355	2	2.5	480	2	
166	130591	108	385	1	2.5	560	2	
166	130591	108	385	2	2.5	630	3	
166	130591	108	415	1	2.5	720	3	
167	140590	108	370	1	2.5	540	3	
167	140590	108	360	1	2.0	340	1	
167	140590	108	350	2	2.5	470	1	
167	140590	108	380	2	2.5	470	1	
167	140590	108	360	2	2.5	460	1	
167	140590	108	360	1	2.0	520	1	
167	140590	108	360	2	2.5	500	1	
167	140590	108	380	2	2.5	540	1	
167	140590	108	360	2	2.5	500	1	
167	140590	108	380	2	2.5	550	1	
167	140590	108	380	2	2.5	520	1	
167	140590	108	375	2	2.5	530	1	
167	140590	108	383	1	2.0	580	2	
167	140590	108	350	2	2.5	460	1	
167	140590	108	395	2	2.5	580	1	
167	140590	108	350	2	2.5	450	1	
167	140590	108	365	2	2.5	490	1	
167	140590	108	370	2	2.5	490	2	
167	140590	108	350	1	2.0	470	1	
		108	360	2	2.5	490	2	

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
167	140590	108	375	2	2.5	520	2	
167	140590	108	385	1	2.0	560	1	
167	140590	108	385	1	2.0	540	1	
167	140590	108	345	1	2.0	490	1	
167	140590	108	355	1	2.0	480	1	
167	140590	108	385	2	3.0	560	1	
167	140590	108	370	2	2.5	470	1	
167	140590	108	365	2	2.5	440	1	
167	140590	108	380	2	3.0	540	1	
167	140590	108	370	2	2.5	550	2	
167	140590	108	380	1	2.0	560	2	
167	140590	108	370	2	2.5	500	1	
167	140590	108	335	2	2.5	430	1	
167	140590	108	365	2	2.5	470	2	
167	140590	108	350	2	2.5	460	1	
167	140590	108	360	2	3.0	500	1	
167	140590	108	375	1	2.0	510	2	
167	140590	108	375	2	2.0	440	1	
167	140590	108	380	2	2.5	580	2	
167	140590	108	380	2	3.0	500	1	
167	140590	108	365	2	2.5	510	1	
167	140590	108	320	1	2.0	340	1	
167	140590	108	360	2	2.5	440	1	
167	140590	108	370	1	2.0	520	1	
167	140590	108	370	1	2.0	520	2	
167	140590	108	385	2	2.5	440	1	
167	140590	108	380	1	2.5	580	2	
167	140590	108	330	2	2.0	440	2	
167	140590	108	375	2	2.5	500	1	
167	140590	108	370	2	2.5	490	1	
167	140590	108	515	1	2.0	1420	2	
167	140590	108	315					
167	140590	108	325					
167	140590	108	335					
167	140590	108	345					
167	140590	108	345					
167	140590	108	345					
167	140590	108	345					
167	140590	108	345					
167	140590	108	345					
167	140590	108	345					
167	140590	108	345					

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
167	140590	108	355					
167	140590	108	355					
167	140590	108	355					
167	140590	108	355					
167	140590	108	355					
167	140590	108	355					
167	140590	108	355					
167	140590	108	355					
167	140590	108	355					
167	140590	108	355					
167	140590	108	355					
167	140590	108	355					
167	140590	108	355					
167	140590	108	355					
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167	140590	108	365					
167	140590	108	365					
167	140590	108	365					
167	140590	108	365					
167	140590	108	365					
167	140590	108	365					
167	140590	108	365					
167	140590	108	365					

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
167	140590	108	365					
167	140590	108	365					
167	140590	108	365					
167	140590	108	365					
167	140590	108	365					
167	140590	108	365					
167	140590	108	365					
167	140590	108	365					
167	140590	108	365					
167	140590	108	365					
167	140590	108	365					
167	140590	108	375					
167	140590	108	375					
167	140590	108	375					
167	140590	108	375					
167	140590	108	375					
167	140590	108	375					
167	140590	108	375					
167	140590	108	375					
167	140590	108	375					
167	140590	108	375					
167	140590	108	375					
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167	140590	108	375					
167	140590	108	375					
167	140590	108	375					
167	140590	108	375					
167	140590	108	375					
167	140590	108	375					
167	140590	108	375					
167	140590	108	375					

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
167	140590	108	385					
167	140590	108	385					
167	140590	108	385					
167	140590	108	385					
167	140590	108	385					
167	140590	108	385					
167	140590	108	385					
167	140590	108	385					
167	140590	108	385					
167	140590	108	385					
167	140590	108	385					
167	140590	108	385					
167	140590	108	385					
167	140590	108	385					
167	140590	108	385					
167	140590	108	385					
167	140590	108	385					
167	140590	108	385					
167	140590	108	385					
167	140590	108	385					
167	140590	108	385					
167	140590	108	385					
167	140590	108	395					
167	140590	108	395					
167	140590	108	395					
167	140590	108	395					
167	140590	108	395					
167	140590	108	395					
167	140590	108	395					
167	140590	108	395					
167	140590	108	395					
167	140590	108	395					
167	140590	108	395					
167	140590	108	395					
167	140590	108	405					
167	140590	108	405					
167	140590	108	405					
167	140590	112	470	2	2.5	1100	2	
167	140590	112	440	2	2.5	820	2	
167	140590	112	460	1	2.5	1070	3	

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
167	140590	112	520	1	2.5	1290	2	
167	140590	112	510	2	2.5	1450	2	
167	140590	112	580	1	2.5	1960	2	
167	140590	112	490	1	2.5	1340	2	
167	140590	112	540	2	2.5	1630	2	
167	140590	112	570	2	2.5	1640	1	
167	140590	112	530	2	2.5	1570	1	
167	140590	112	510	2	2.5	1400	2	
167	140590	112	530	1	2.5	1700	2	
167	140590	112	540	2	2.5	1450	1	
167	140590	112	470	2	2.5	1060	2	
167	140590	112	510	2	2.5	1490	1	
167	140590	112	540	1	2.5	1540	1	
167	140590	112	420	1	2.0	760	1	
167	140590	112	420	1	2.5	830	2	
167	140590	112	460	2	2.5	1130	1	
167	140590	112	470	2	2.5	1080	2	
167	140590	112	470	2	2.5	1170	2	
167	140590	112	450	2	2.5	1080	2	
167	140590	112	460	2	2.5	950	1	
167	140590	112	440	2	2.5	890	2	
167	140590	112	420	1	2.5	780	2	
167	140590	118	420	1	2.5	880	1	
167	140590	118	420	2	2.0	820	2	
167	140590	118	290	2	2.0	270	2	
167	140590	118	300	2	2.0	320	2	
168	140591	108	300	1	2.0	320	2	
168	140591	108	360	2	2.5	490	2	
168	140591	108	360	1	2.0	440	2	COPEPODS,AMPHIPODS
168	140591	108	370	1	2.0	500	2	AMPHIPODS
168	140591	108	345	2	2.5	430	2	AMPHIPODS
168	140591	108	390	1	2.0	550	2	COPEPODS,AMPHIPODS
169	140991	108	375	2	2.5	470	2	AMPHIPODS
169	140991	108	380	2	2.5	540	2	AMPHIPODS
169	140991	108	380	1	2.0	590	2	CHAETOGNATHA,COPEPODS
169	140991	108	370	2	3.0	530	1	CHAETOGNATHA,AMPHIPODS
169	140991	108	385	2	2.5	460	2	CHAETOGNATHA,AMPHIPODS,COPEPODS
169	140991	108	370	2	3.0	520	2	CHAETOGNATHA,AMPHIPODS,COPEPODS
169	140991	108	375	2	2.5	530	2	CHAETOGNATHA,AMPHIPODS,COPEPODS
169	140991	108	365	2	3.0	520	2	CHAETOGNATHA,AMPHIPODS,COPEPODS
169	140991	108	385	2	2.5	560	2	CHAETOGNATHA,AMPHIPODS,COPEPODS,PTEROPODS
169	140991	108	380	2	2.5	560	2	CHAETOGNATHA,AMPHIPODS,COPEPODS
169	140991	108	365	2	3.0	540	2	CHAETOGNATHA,AMPHIPODS
								CHAETOGNATHA,AMPHIPODS

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
169	140991	108	385	2	3.0	600	2	
169	140991	108	350	2	2.5	530	2	
169	140991	108	375	1	2.0	510	2	
169	140991	108	260	1	2.0	210	2	
169	140991	112	370	2	2.0	510	2	EMPTY STOMACH
169	140991	124	345	1	2.0	620	3	2 SQUID (4 cm)
169	140991	124	315	1	2.0	520	2	1 SMALL SQUID (2 cm)
169	140991	124	315	1	2.0	500	2	1 SMALL SQUID (2 cm)
169	140991	124	310	1	2.0	540	2	1 SQUID (4 cm)
170	140591	108	375	2	2.5	540	3	
170	140591	108	370	2	2.5	560	3	
170	140591	108	350	1	2.5	500	2	
170	140591	108	290	2	2.5	280	2	
170	140591	112	450	1	2.0	1070	1	WHITE GELATINOUS GRANULAR MASS (CTENOPHORES)
170	140591	112	450	1	2.0	1050	2	AMPHIPOD,JELLY
170	140591	112	450	1	2.5	1050	2	
170	140591	112	430	2	2.5	950	2	WHITE GELATINOUS GRANULAR MASS (CTENOPHORES)
170	140591	112	400	1	2.0	750	2	JELLY
170	140591	112	390	1	2.0	680	2	SMALL TUNICATES
170	140591	112	400	1	2.0	770	2	SMALL TUNICATES
170	140591	112	390	1	2.0	650	3	WHITE GELATINOUS GRANULAR MASS (CTENOPHORES)
170	140591	112	380	2	2.5	610	2	CHAETOGNATHA
170	140591	112	380	1	2.0	640	2	WHITE GELATINOUS GRANULAR MASS (CTENOPHORES)
170	140591	112	380	2	2.5	650	3	
170	140591	112	380	2	2.5	600	2	
170	140591	115	520	2	2.5	1500	3	FISH REMANS,JELLY
170	140591	124	470	2	2.5	1250	3	EMPTY STOMACH
170	140591	124	355	1	2.0	750	2	EMPTY STOMACH
170	140591	124	300	2	2.0	440	3	4 SQUID (4 cm)
170	140591	124	300	2	2.0	410	2	1 SQUID (4 cm)
170	140591	124	300	2	2.0	400	2	1 SQUID (4 cm)
170	140591	124	300	1	2.0	440	3	1 SQUID (4 cm)
170	140591	124	310	1	2.0	450	2	1 SQUID (4 cm)
170	140591	124	300	1	2.0	440	2	1 SQUID (4 cm)
172	150591	112	315	2	2.0	330	1	AMPHIPODS,JELLY
172	150591	112	300	2	2.0	280	0	AMPHIPODS,WHITE GELATINOUS GRANULAR MASS (CTENOPHORES)
172	150591	112	290	1	2.0	220	1	AMPHIPODS,WHITE GELATINOUS GRANULAR MASS (CTENOPHORES)
172	150591	112	335	2	2.0	380	1	AMPHIPODS,JELLY,WHITE GELATINOUS GRANULAR MASS (CTENOPHORES)
172	150591	112	295	2	2.0	250	1	EMPTY STOMACH
172	150591	112	310	2	2.0	300	0	AMPHIPODS,WHITE GELATINOUS GRANULAR MASS (CTENOPHORES)
172	150591	112	300	2	2.0	250	1	AMPHIPODS,WHITE GELATINOUS GRANULAR MASS (CTENOPHORES),JELLY
172	150591	112	310	1	2.0	260	0	AMPHIPODS,WHITE GELATINOUS GRANULAR MASS (CTENOPHORES)
172	150591	112	295	2	2.0	260	1	AMPHIPODS,WHITE GELATINOUS GRANULAR MASS (CTENOPHORES)

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
172	150591	112	300	2	2.0	270	1	AMPHIPODS,CHAETOGNATHA
172	150591	112	300	1	2.0	260	0	
172	150591	112	285	1	2.0	240	1	
172	150591	112	285	2	2.0	240	1	
172	150591	112	290	2	2.0	250	1	
172	150591	112	275	1	2.0	230	1	
172	150591	112	300	1	2.0	280	1	
172	150591	112	300	1	2.0	260	1	
172	150591	112	295	2	2.0	260	0	
172	150591	112	285	1	2.0	260	1	
172	150591	112	305	2	2.0	280	1	
172	150591	112	280	1	2.0	250	1	
172	150591	112	285	2	2.0	230	1	
172	150591	112	295	2	2.0	240	1	
172	150591	112	270	2	2.0	220	0	
172	150591	112	375	1	2.0	530	1	FISH REMAINS,3 TUNICATES
172	150591	112	395	1	2.0	710	2	WHITE GELATINOUS GRANULAR MASS (CTENOPHORES)
172	150591	112	400	2	2.0	720	2	EMPTY
172	150591	112	390	1	2.0	680	1	EMPTY
172	150591	112	410	1	2.0	810	1	WHITE GELATINOUS GRANULAR MASS (CTENOPHORES)
172	150591	112	400	2	2.0	860	1	
172	150591	112	335	1	2.0	670	3	
172	150591	115	480	2	2.5	1430	1	1 SQUID (5 cm)
172	150591	115	475	2	2.0	1240	4	2 SQUID (5 cm)
172	150591	115	520	2	2.5	1680	3	
172	150591	115	500	1	2.0	1600	1	SQUID REMAINS
172	150591	115	520	1	2.0	1650	3	
172	150591	124	345	1	2.0	550	1	SQUID REMAINS
172	150591	124	345	2	2.0	530	2	2 SQUID (3 cm)
173	150591	108	370	1	2.5	470	2	
173	150591	112	400	1	2.0	670	2	WHITE GELATINOUS GRANULAR MASS (CTENOPHORES)
173	150591	112	390	2	2.5	720	2	WHITE GELATINOUS GRANULAR MASS (CTENOPHORES)
173	150591	112	390	1	2.0	650	2	WHITE GELATINOUS GRANULAR MASS (CTENOPHORES)
173	150591	112	400	2	2.5	730	2	FISH REMAINS,JELLY
173	150591	112	380	1	2.0	600	2	10 TUNICATES,WHITE GELATINOUS GRANULAR MASS (CTENOPHORES)
173	150591	112	410	2	2.5	780	3	JELLY,WHITE GELATINOUS GRANULAR MASS (CTENOPHORES)
173	150591	112	410	2	2.5	750	3	WHITE GELATINOUS GRANULAR MASS (CTENOPHORES)
173	150591	112	400	2	2.5	740	3	WHITE GELATINOUS GRANULAR MASS (CTENOPHORES)
173	150591	112	380	2	2.5	570	2	WHITE GELATINOUS GRANULAR MASS (CTENOPHORES)
173	150591	112	370	2	2.0	580	2	JELLY
173	150591	112	390	2	2.5	590	3	
173	150591	112	390	2	2.0	650	2	
173	150591	112	420	1	2.0	710	2	

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
173	150591	112	380	2	2.5	610	2	
173	150591	112	470	1	2.0	1050	2	
173	150591	112	395	2	2.5	630	2	
173	150591	112	370	2	2.5	530	3	
173	150591	112	400	2	2.5	700	2	
173	150591	112	410	2	2.5	750	3	
173	150591	112	380	1	2.0	620	2	
173	150591	112	405	1	2.0	800	3	
173	150591	112	430	2	2.5	900	3	
173	150591	112	415	2	2.5	770	3	
173	150591	112	390	1	2.0	720	3	
173	150591	112	370	2	2.5	600	2	
173	150591	115	480	2	2.5	1350	2	
173	150591	115	470	2	2.5	1330	3	
173	150591	115	500	2	2.5	1440	3	
173	150591	124	370	2	2.0	600	3	
173	150591	124	350	1	2.0	520	2	
173	150591	124	300	2	2.0	340	3	
174	150591	112	375	2	2.5	620	4	WHITE GELATINOUS GRANULAR MASS (CTENOPHORES)
174	150591	112	405	2	2.5	630	3	WHITE GELATINOUS GRANULAR MASS (CTENOPHORES)
174	150591	112	400	1	2.0	690	3	WHITE GELATINOUS GRANULAR MASS (CTENOPHORES)
174	150591	112	375	2	2.5	580	4	WHITE GELATINOUS GRANULAR MASS (CTENOPHORES),1 POLYCHETE
174	150591	115	400	1	2.0	750	2	SQUID REMAINS
174	150591	115	480	1	2.0	1200	2	SQUID (4 cm)
176	160591	108	360	1	2.0	410	0	
176	160591	108	325	1	2.0	340	0	
176	160591	108	355	1	2.0	440	0	
176	160591	108	345	1	2.0	430	1	
176	160591	108	360	1	2.0	420	0	
176	160591	108	375	2	2.5	460	1	
176	160591	108	390	1	2.0	500	0	
176	160591	108	345	2	2.0	360	0	
176	160591	108	350	2	2.0	430	0	
176	160591	108	370	2	3.0	460	0	
176	160591	108	310	2	2.0	210	0	
176	160591	112	430	1	2.0	810		
177	221771	108	380	2	2.5	490	2	
177	121771	108	370	1	2.0	420	2	
177	121771	108	355	1	2.0	430	2	
178	160591	108	405	2	2.5	560	2	WHITE GELATINOUS GRANULAR MASS (CTENOPHORES)
178	160591	108	420	1	2.5	650	3	AMPHIPODS
178	160591	108	370	2	2.5	450	3	AMPHIPODS,COPEPODS
178	160591	108	385	1	2.5	540	3	AMPHIPODS,COPEPODS

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
178	160591	108	360	1	2.5	440	3	AMPHIPODS
178	160591	108	390	1	2.5	540	2	AMPHIPODS
178	160591	108	395	2	2.5	560	2	AMPHIPODS,COPEPODS
178	160591	108	340	2	2.5	390	3	AMPHIPODS
178	160591	108	390	2	2.5	550	3	AMPHIPODS
178	160591	108	345	2	2.5	360	3	AMPHIPODS
178	160591	108	345	1	2.5	370	3	
178	160591	108	385	1	3.0	540	2	
178	160591	108	350	1	2.5	440	3	
178	160591	112	405	2	2.5	650	3	
179	200591	112	590	1	2.5	2260	3	
179	200591	112	440	2	2.5	1030	3	
180	200591	112	395	1	2.0	530	0	
180	200591	112	405	1	2.0	710	0	
180	200591	112	420	1	2.0	820	0	
180	200591	112	380	1	2.0	550	0	
180	200591	112	470	2	2.0	970	0	
180	200591	112	405	1	2.0	670	0	
180	200591	112	405	1	2.0	800	0	
180	200591	112	390	2	2.0	590	0	
180	200591	112	390	1	2.0	620	0	
180	200591	112	390	2	2.0	680	0	
180	200591	112	385	2	2.0	640	0	
180	200591	112	390	2	2.0	620	0	
180	200591	112	400	1	2.0	670	0	
180	200591	112	415	1	2.0	830	0	
180	200591	112	435	2	2.0	860	0	
180	200591	112	430	2	2.0	760	0	
180	200591	112	380	1	2.0	510	0	
180	200591	112	380	2	2.0	550	0	
180	200591	112	370	1	2.0	460	0	
180	200591	112	415	2	2.0	800	0	
180	200591	112	285	2	2.0	210	0	
180	200591	112	325	1	2.0	340	0	
180	200591	112	270	1	2.0	210	0	
180	200591	112	290	1	2.0	230	0	
180	200591	112	290	2	2.0	240	0	
180	200591	112	260	2	2.0	200	0	
180	200591	112	260	2	2.0	180	0	
180	200591	112	295	2	2.0	240	0	
180	200591	112	300	2	2.0	240	0	
180	200591	112	290	2	2.0	230	0	
180	200591	112	280	1	2.0	230	0	

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
180	200591	112	320	2	2.0	300	0	
180	200591	112	275	1	2.0	200	0	
180	200591	112	300	1	2.0	250	0	
180	200591	112	285	1	2.0	210	0	
180	200591	112	280	1	2.0	210	0	
180	200591	112	290	1	2.0	210	0	
180	200591	112	295	1	2.0	240	0	
180	200591	112	285	1	2.0	220	0	
180	200591	112	275	1	2.0	200	0	
180	200591	112	275	1	2.0	180	0	
180	200591	112	290	1	2.0	240	0	
180	200591	112	275	1	2.0	200	0	
180	200591	112	290	1	2.0	220	0	
180	200591	112	270	1	2.0	210	0	
180	200591	112	290	1	2.0	240	0	
180	200591	112	250	1	2.0	180	0	
180	200591	112	290	1	2.0	230	0	
180	200591	112	290	2	2.0	230	0	
180	200591	112	270	1	2.0	190	0	
180	200591	112	365					
180	200591	112	365					
180	200591	112	375					
180	200591	112	375					
180	200591	112	385					
180	200591	115	535	1	2.0	1810	0	
180	200591	115	520	1	2.0	1770	0	
180	200591	115	465	2	2.0	1260	0	
180	200591	115	490	1	2.0	1400	2	
180	200591	115	505	2	2.0	1560	0	
180	200591	115	450	2	2.0	1210	0	
180	200591	115	485	1	2.0	1340	0	
180	200591	115	475	2	2.0	1470	2	
180	200591	115	455	2	2.0	1160	0	
180	200591	115	430	2	2.0	1040	2	
180	200591	115	410	2	2.0	760	0	
181	200591	112	435	2	2.0	920	1	WHITE GELATINOUS GRANULAR MASS (CTENOPHORES)
181	200591	112	390	1	2.0	630	1	
181	200591	112	380	1	2.0	580	1	WHITE GELATINOUS GRANULAR MASS (CTENOPHORES)
181	200591	112	385	1	2.0	700	1	WHITE GELATINOUS GRANULAR MASS (CTENOPHORES)
181	200591	112	295	2	2.0	240	0	
181	200591	112	280	1	2.0	210	0	
181	200591	115	430	2	2.5	1070	1	SQUID REMAINS
181	200591	115	480	2	2.5	1540	2	2 SQUID (6 cm)

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
181	200591	115	420	1	2.0	900	2	SQUID AND FISH REMAINS
181	200591	115	440	1	2.0	1220	2	1 SQUID (5 cm),SQUID REMAINS
181	200591	115	465	2	2.5	1200	1	
181	200591	115	480	2	2.5	1450	1	
181	200591	115	445	2	2.5	1290	1	FISH REMAINS
181	200591	115	470	1	2.0	1100	3	SQUID REMAINS
181	200591	115	460	2	2.5	1290	2	2 SQUID (4 CM)
182	200591	108	360	1	2.5	420	2	
182	200591	108	365	2	2.5	480	2	
182	200591	108	375	2	2.5	500	3	
182	200591	108	325	1	2.5	430	3	
182	200591	108	330	1	2.5	510	3	
182	200591	108	325	2	2.5	400	2	
182	200591	108	355	2	2.5	460	3	
182	200591	108	355	1	2.5	440	2	
182	200591	108	345	2	2.5	430	2	
182	200591	108	360	2	2.5	500	3	
182	200591	108	355	1	2.5	530	3	
182	200591	108	365	2	2.5	490	3	
182	200591	108	365	1	2.5	520	2	
182	200591	108	370	1	2.5	470	2	
182	200591	108	335	2	2.5	370	2	
182	200591	108	390	2	2.5	650	3	
182	200591	108	380	2	2.5	580	3	
182	200591	108	345	2	2.5	420	3	
182	200591	108	360	1	2.5	490	3	
182	200591	108	360	1	2.5	460	3	
182	200591	108	345	2	2.5	450	3	
182	200591	108	345	2	2.5	480	3	
182	200591	108	360	1	2.5	480	3	
182	200591	108	365	2	2.5	510	3	
182	200591	108	345			440		
182	200591	108	305					
182	200591	108	315					
182	200591	108	325					
182	200591	108	335					
182	200591	108	335					
182	200591	108	335					
182	200591	108	345					
182	200591	108	345					
182	200591	108	345					
182	200591	108	345					
182	200591	108	355					

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
182	200591	108	355					
182	200591	108	355					
182	200591	108	355					
182	200591	108	355					
182	200591	108	355					
182	200591	108	365					
182	200591	112	395	2	2.5	670	2	
182	200591	112	300	2	2.5	240	2	
182	200591	112	305	2	2.5	270	2	
182	200591	112	365	2	2.5	460	2	
182	200591	112	370	2	2.5	460	2	
182	200591	112	400	1	2.0	610	3	
182	200591	112	395	1	2.0	740	3	
182	200591	112	400	1	2.5	640	3	
182	200591	112	285	2	2.5	220	2	
182	200591	112	400	1	2.0	650	3	
182	200591	112	440	1	2.0	950	3	
182	200591	112	385	2	2.5	670	2	
182	200591	112	405	1	2.5	720	3	
182	200591	112	400	2	2.5	650	2	
182	200591	112	390	2	2.5	610	3	
182	200591	112	415	2	2.5	720	2	
182	200591	112	420	2	2.5	760	3	
182	200591	112	390	2	2.5	530	2	
182	200591	112	285	2	2.5	250	3	
182	200591	112	300	2	2.5	270	3	
182	200591	112	440	1	2.0	850	3	
182	200591	112	405	2	2.0	700	3	
182	200591	112	410	2	2.5	600	2	
182	200591	112	395	2	2.5	620	2	
182	200591	112	295	2	2.5	280	3	
182	200591	112	395	1	2.0	600		
182	200591	112	300	2	2.5	270		
182	200591	112	275	2	2.5	210		
182	200591	112	290	2	2.5	260		
182	200591	112	305	1	2.0	260		
182	200591	112	290	1	2.0	250		
182	200591	112	325	2	2.5	370		
182	200591	112	315	1	2.0	250		
182	200591	112	370	1	2.0	520		
182	200591	112	305	2	2.0	280		
182	200591	112	285	1	2.0	220		
182	200591	112	300	1	2.0	290		

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
182	200591	112	350	2	2.5	480		
182	200591	112	370	1	2.0	560		
182	200591	112	285	1	2.0	230		
182	200591	112	375	1	2.0	570		
182	200591	112	390	2	2.5	590		
182	200591	112	300	1	2.0	280		
182	200591	112	385	2	2.5	610		
182	200591	112	310	2	2.5	270		
182	200591	112	380	2	2.5	550		
182	200591	112	405	1	2.0	710		
182	200591	112	355	1	2.0	430		
182	200591	112	305	1	2.0	330		
182	200591	112	295	2	2.5	290		
182	200591	112	295					
182	200591	112	270					
182	200591	115	515	2	2.5	1580		
184	210591	108						
184	210591	108						
184	210591	108						
184	210591	108						
184	210591	108						
184	210591	108						
184	210591	108						
184	210591	108						
184	210591	112						
184	210591	112						
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184	210591	112						
184	210591	112						
184	210591	112						
184	210591	112						
184	210591	112						
184	210591	112						
185	210591	108	400	2	3.0	600	1	
185	210591	108	400	2	3.0	650	1	
185	210591	108	355	1	2.0	540	1	

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
185	210591	108	385	2	2.5	540	1	
185	210591	108	340	1	2.5	380	0	
185	210591	108	380	2	3.0	570	1	
185	210591	108	365	2	2.5	570	1	
185	210591	108	420	1	2.5	690	1	
185	210591	108	410	1	2.5	650	1	
185	210591	108	380	2	3.0	540	1	
185	210591	108	400	1	2.0	650	2	
185	210591	108	370	2	2.5	550	1	AMPHIPODS,COPEPODS
185	210591	108	380	2	2.5	510	1	AMPHIPODS
185	210591	108	380	2	2.5	470	1	AMPHIPODS
185	210591	108	400	2	3.0	580	3	AMPHIPODS,COPEPODS
185	210591	108	375	2	2.5	520	2	AMPHIPODS
185	210591	108	355	2	2.5	460	0	AMPHIPODS,COPEPODS
185	210591	108	390	1	2.0	570	0	EMPTY STOMACH
185	210591	108	490	1	2.0	580	1	AMPHIPODS
185	210591	108	365	2	3.0	510	1	AMPHIPODS
185	210591	108	370	2	3.0	520	1	EMPTY STOMACH
185	210591	108	380	2	2.5	510	1	
185	210591	108	390	2	2.0	530	2	
185	210591	108	360	1	2.0	460	2	
185	210591	108	375	2	2.5	520	1	
185	210591	108	360	1	2.5	440		
185	210591	108	380	2	2.5	600		
185	210591	108	370	2	2.5	510		
185	210591	108	355	1	2.0	460		
185	210591	108	365	2	2.5	500		
185	210591	108	375	2	2.5	530	1	
185	210591	108	365	2	2.5	560	0	
185	210591	108	375	2	3.0	540	1	
185	210591	108	345	2	2.0	430	1	
185	210591	108	375	2	2.5	440	2	
185	210591	108	480	2	2.5	540	1	
185	210591	108	475	2	2.5	460	1	
185	210591	108	405	1	2.0	640	0	
185	210591	108	470	2	2.5	560	1	
185	210591	108	375	2	2.5	540	2	
185	210591	108	360	2	3.0	480	1	
185	210591	108	370	1	3.0	480	3	
185	210591	108	370	2	2.5	480	0	
185	210591	108	350	1	2.0	380	1	
185	210591	108	370	1	2.0	490	2	
185	210591	108	410	2	3.0	680	2	

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
185	210591	108	370	2	2.5	460	2	
185	210591	108	375	2	3.0	530	2	
185	210591	108	365	1	2.0	530	1	
185	210591	108	365	2	3.0	500	3	
185	210591	108	345					
185	210591	108	345					
185	210591	108	355					
185	210591	108	355					
185	210591	108	355					
185	210591	108	365					
185	210591	108	365					
185	210591	108	365					
185	210591	108	365					
185	210591	108	365					
185	210591	108	365					
185	210591	108	365					
185	210591	108	375					
185	210591	108	385					
185	210591	112	485	2	3.0	1410	1	7 TUNICATES,WHITE GELATINOUS GRANULAR MASS (CTENOPHORES)
185	210591	112	490	1	2.0	1050	1	7-8 TUNICATES
185	210591	112	395	2	2.0	660	1	EMPTY STOMACH
185	210591	112	400	1	2.0	660	0	EMPTY STOMACH
185	210591	112	425	1	2.0	810	0	EMPTY STOMACH
185	210591	112	405	1	2.0	640	0	
185	210591	112	440	1	2.0	760	0	
185	210591	112	400	2	2.0	630	0	
185	210591	115	340	1	2.0	420	1	
186	210591	108	455	2	2.5	490	3	
186	210591	112	530	1	2.0	1590	4	20 SMALL TUNICATES,AMPHIPODS
186	210591	112	505	2	2.0	1310	3	
187	210591	112	570	1	2.0	2030	3	TUNICATES
187	210591	112	480	2	2.5	1500	3	5 TUNICATES,WHITE GELATINOUS GRANULAR MASS (CTENOPHORES)
187	210591	112	400	2	2.5	700	2	EMPTY STOMACH
187	210591	118	400	2	2.5	830	3	
188	220591	108	360	1	2.0	450	0	AMPHIPODS,PTEROPODS
188	220591	108	385	2	3.0	550	1	EMPTY
188	220591	108	365	2	3.0	520	0	AMPHIPODS,PTEROPODS
188	220591	108	380	2	3.0	520	0	AMPHIPODS,PTEROPODS
188	220591	112	535	2	2.5	1580	3	WHITE GELATINOUS GRANULAR MASS (CTENOPHORES)
188	220591	112	500	2	2.5	1470	0	EMPTY STOMACH
188	220591	112	530	1	2.0	1650	0	EMPTY STOMACH
188	220591	112	530	1	2.0	1510	0	WHITE GELATINOUS GRANULAR MASS (CTENOPHORES)
188	220591	112	505	1	2.0	1410	0	EMPTY

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
188	220591	112	470	1	2.0	1140	0	EMPTY
189	220591	108	390	2	2.5	580	3	CHAETOGNATHA
189	220591	108	405	1	2.5	680	2	CHAETOGNATHA
189	220591	108	400	2	2.5	600	2	CHAETOGNATHA,AMPHIPODS
189	220591	108	385	2	2.5	570	2	CHAETOGNATHA,AMPHIPODS
189	220591	108	395	2	2.5	580	2	CHAETOGNATHA
189	220591	108	370	2	2.5	510	3	CHAETOGNATHA
189	220591	108	380	1	2.5	550	2	CHAETOGNATHA
189	220591	108	365	2	2.5	490	3	CHAETOGNATHA
189	220591	108	370	1	2.5	500	3	CHAETOGNATHA
189	220591	108	390	2	2.5	570	2	CHAETOGNATHA
189	220591	108	370	1	2.5	460	2	
189	220591	108	360	2	2.5	500	2	
189	220591	108	345	1	2.5	390	2	
189	220591	108	330	2	2.5	390	2	
189	220591	108	340	2	2.5	370	3	
189	220591	108	360	2	2.5	460	3	
189	220591	108	390	1	2.5	480	2	
189	220591	108	380	1	3.0	550	2	
189	220591	112	490	2	2.5	1180	3	WHITE GELATINOUS GRANULAR MASS (CTENOPHORES)
189	220591	112	480	2	2.5	1150	2	WHITE GELATINOUS GRANULAR MASS (CTENOPHORES)
189	220591	112	450	1	2.0	1010	3	WHITE GELATINOUS GRANULAR MASS (CTENOPHORES),JELLY
189	220591	112	415	2	2.5	920	3	WHITE GELATINOUS GRANULAR MASS (CTENOPHORES), 3 TUNICATES
189	220591	112	410	1	2.0	780	3	WHITE GELATINOUS GRANULAR MASS (CTENOPHORES), 6 TUNICATES
189	220591	112	400	1	2.0	660	2	WHITE GELATINOUS GRANULAR MASS (CTENOPHORES)
189	220591	112	390	2	2.5	600	3	WHITE GELATINOUS GRANULAR MASS (CTENOPHORES)
189	220591	112	410	1	2.0	670	2	WHITE GELATINOUS GRANULAR MASS (CTENOPHORES)
189	220591	112	305	2	2.5	670	3	WHITE GELATINOUS GRANULAR MASS (CTENOPHORES)
189	220591	112	380	2	2.5	500	3	WHITE GELATINOUS GRANULAR MASS (CTENOPHORES)
189	220591	112	315	1	2.0	310	3	
189	220591	112	315	1	2.0	330	3	
189	220591	112	320	2	2.5	340	3	
189	220591	112	305	1	2.0	270	3	
189	220591	112	310	2	2.5	290	3	
189	220591	112	335	2	2.5	340	2	
189	220591	112	310	2	2.5	280	3	
189	220591	112	295	2	2.5	280	3	
189	220591	112	300	1	2.0	310	3	
189	220591	112	310	1	2.0	320	3	
189	220591	112	330	2	2.5	320	3	
189	220591	112	300	1	2.0	260	2	
189	220591	112	310	2	2.5	310	2	
189	220591	112	280	1	2.0	250	3	

Table 4 (continued).

TRAWL	DATE	SPECIES CODE	FORK LENGTH	SEX	MATURITY	FISH WEIGHT	STOMACH FULLNESS	PRINCIPAL DIET ITEMS
189	220591	112	300	2	2.5	260	2	
189	220591	112	265					
189	220591	112	275					
189	220591	112	275					
189	220591	112	275					
189	220591	112	285					
189	220591	112	285					
189	220591	112	285					
189	220591	112	285					
189	220591	112	285					
189	220591	112	295					
189	220591	112	295					
189	220591	112	295					
189	220591	112	295					
189	220591	112	295					
189	220591	112	305					
189	220591	112	305					
189	220591	112	305					
189	220591	112	305					
189	220591	112	305					
189	220591	112	305					
189	220591	112	315					
189	220591	112	325					

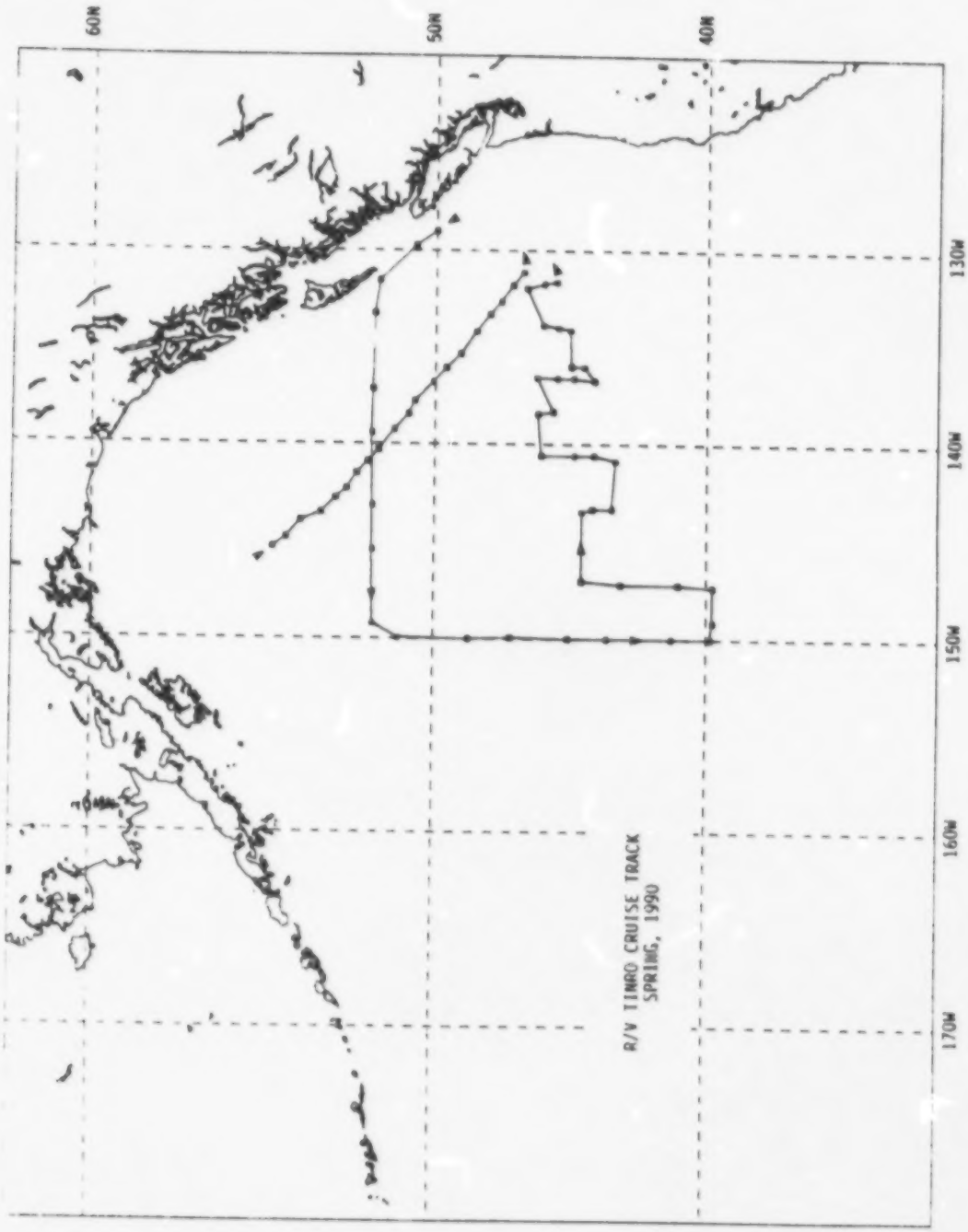


Figure 1. Cruise tracks and trawl stations made by the R/V Tinro on the 1990 joint USSR-Canada High Seas Salmon cruise.

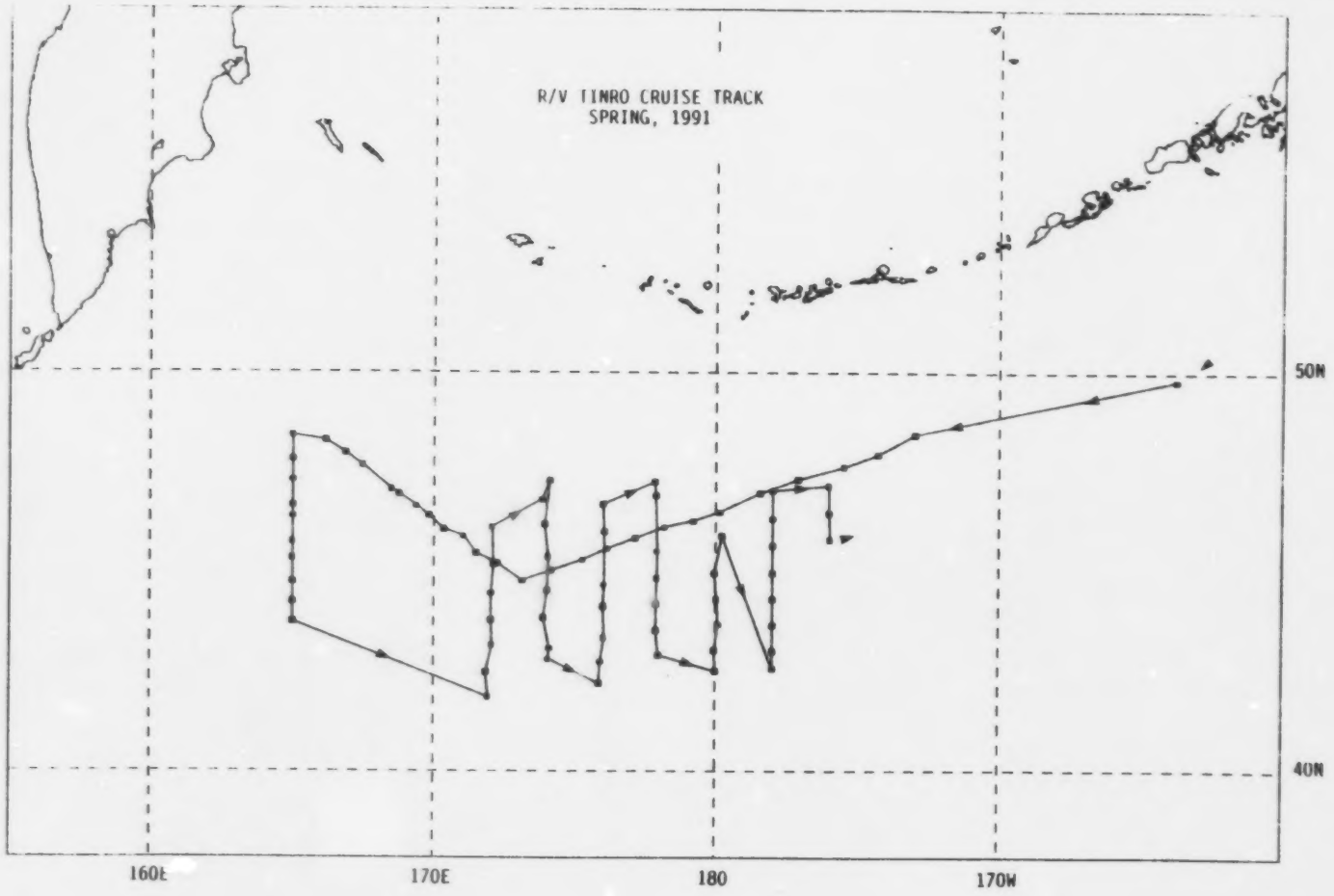


Figure 2. Cruise track and trawl stations made by the R/V Tinro on the 1991 joint USSR-Canada High Seas Salmon cruise.

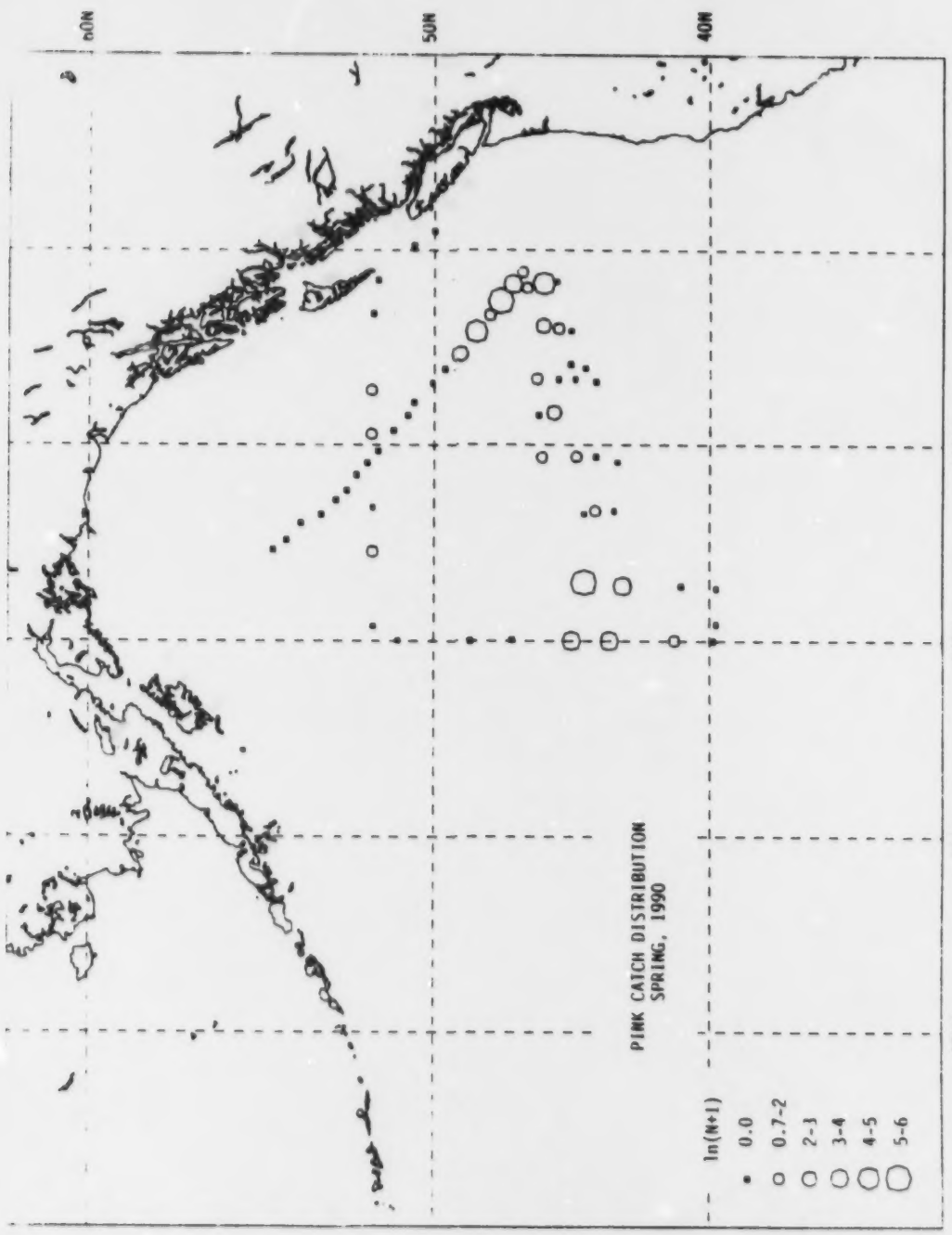


Figure 3a. Distribution of pink salmon during the 1990 cruise. Catches have been log-transformed with the expression ln(N+1), where N is the number of fish caught at each trawl station.

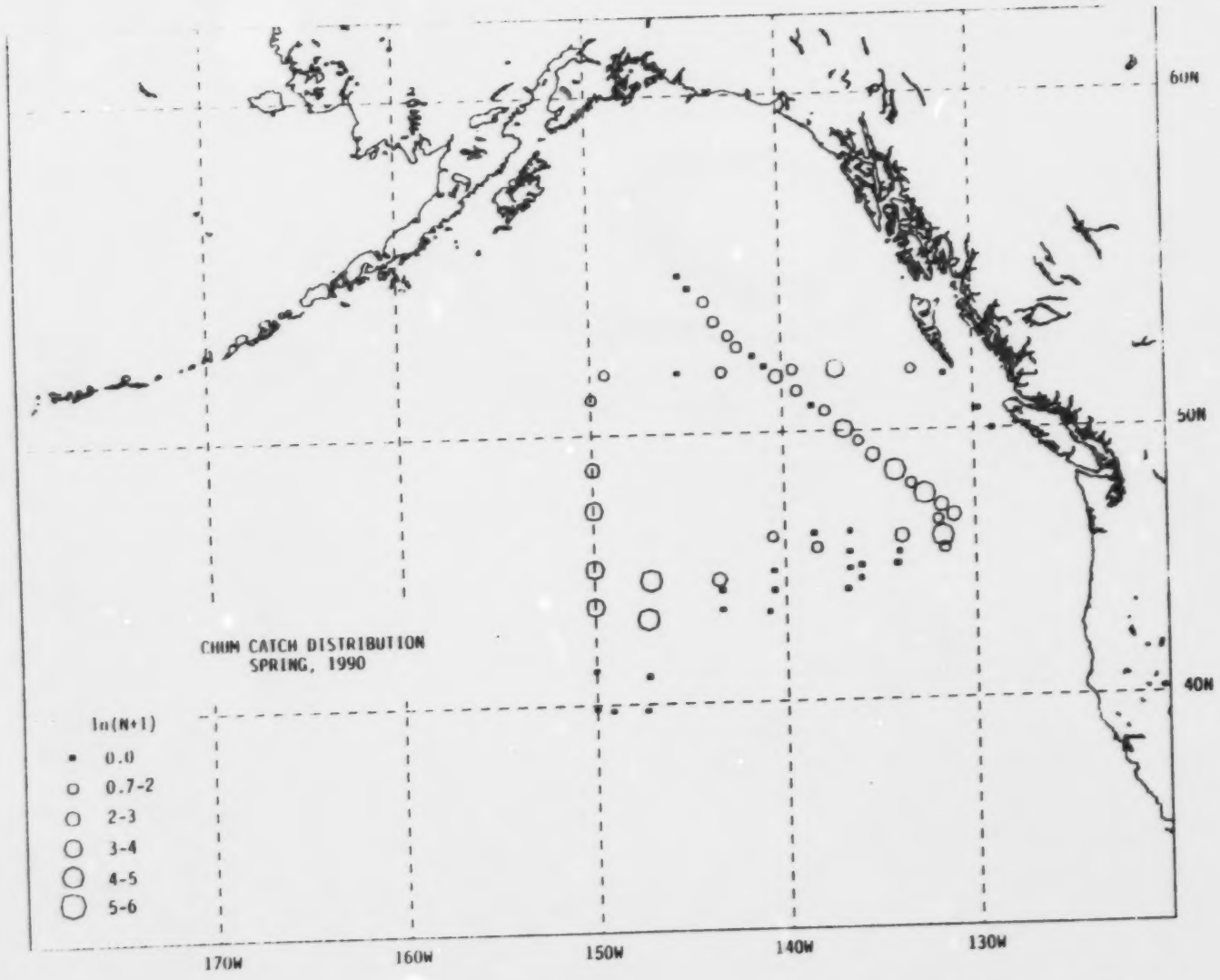


Figure 3b. Distribution of chum salmon during the 1990 cruise. Catches have been log-transformed with the expression ln(N+1), where N is the number of fish caught at each trawl station.

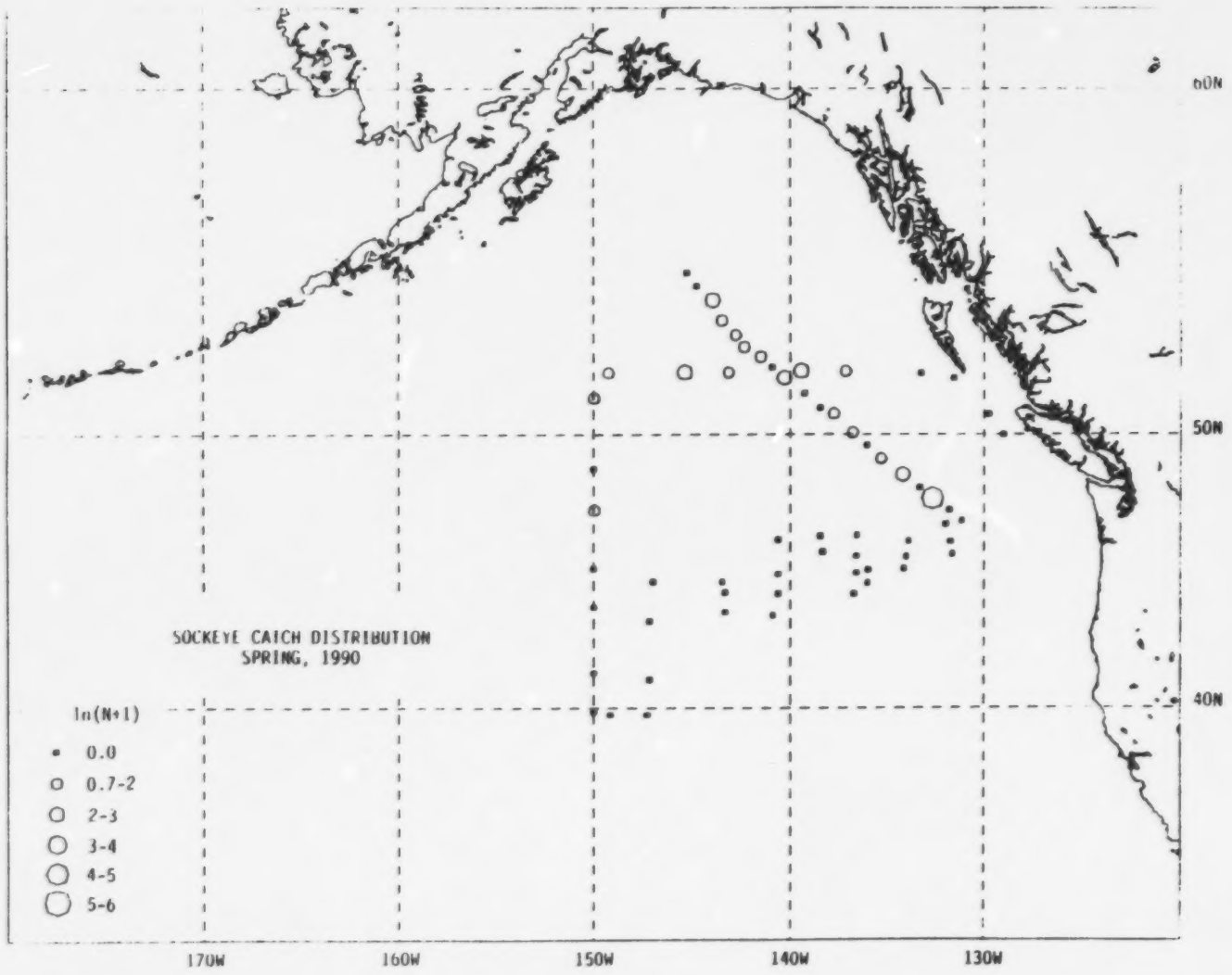


Figure 3c. Distribution of sockeye salmon during the 1990 cruise. Catches have been log-transformed with the expression ln(N+1), where N is the number of fish caught at each trawl station.

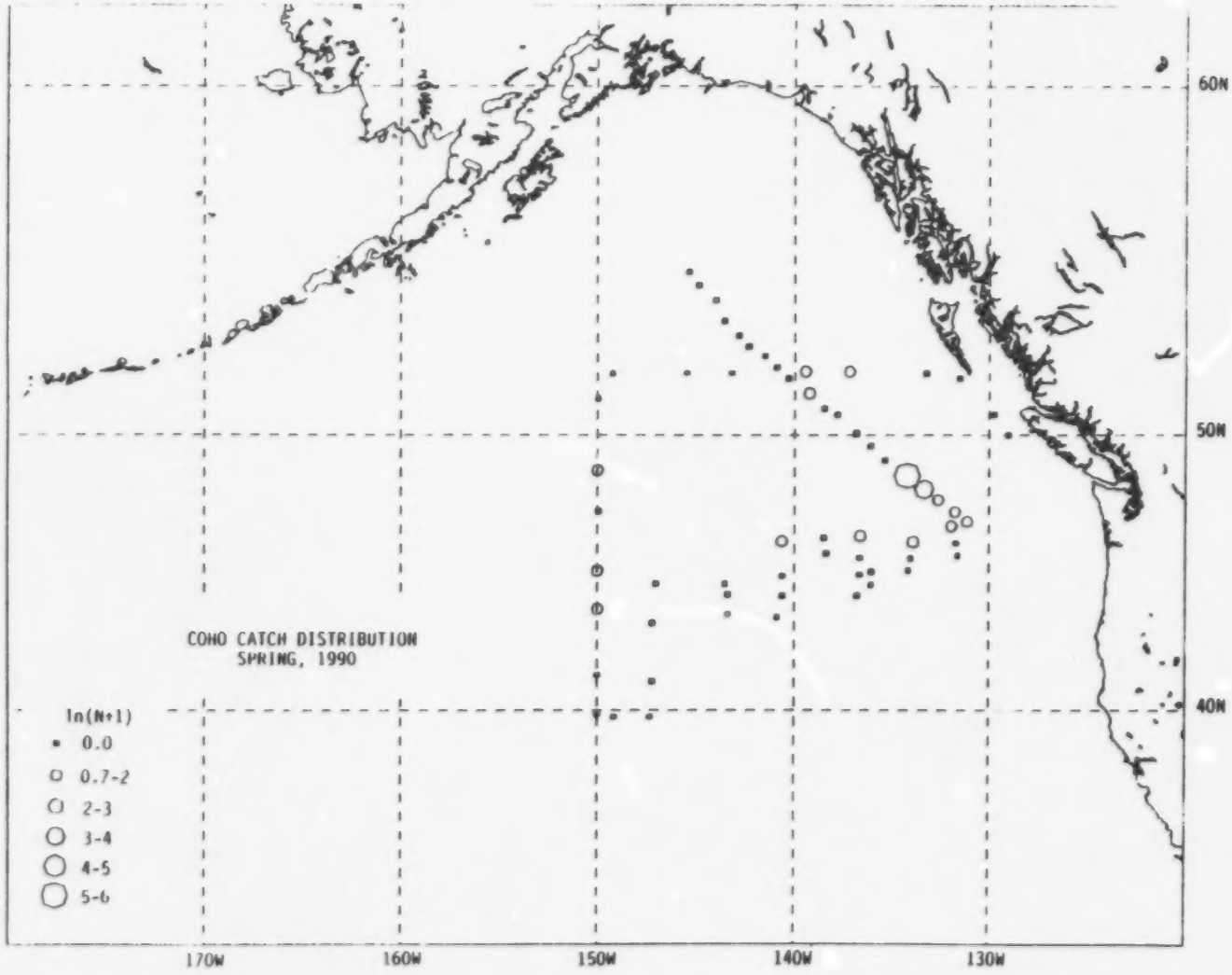


Figure 3d. Distribution of coho salmon during the 1990 cruise. Catches have been log-transformed with the expression ln(N+1), where N is the number of fish caught at each trawl station.

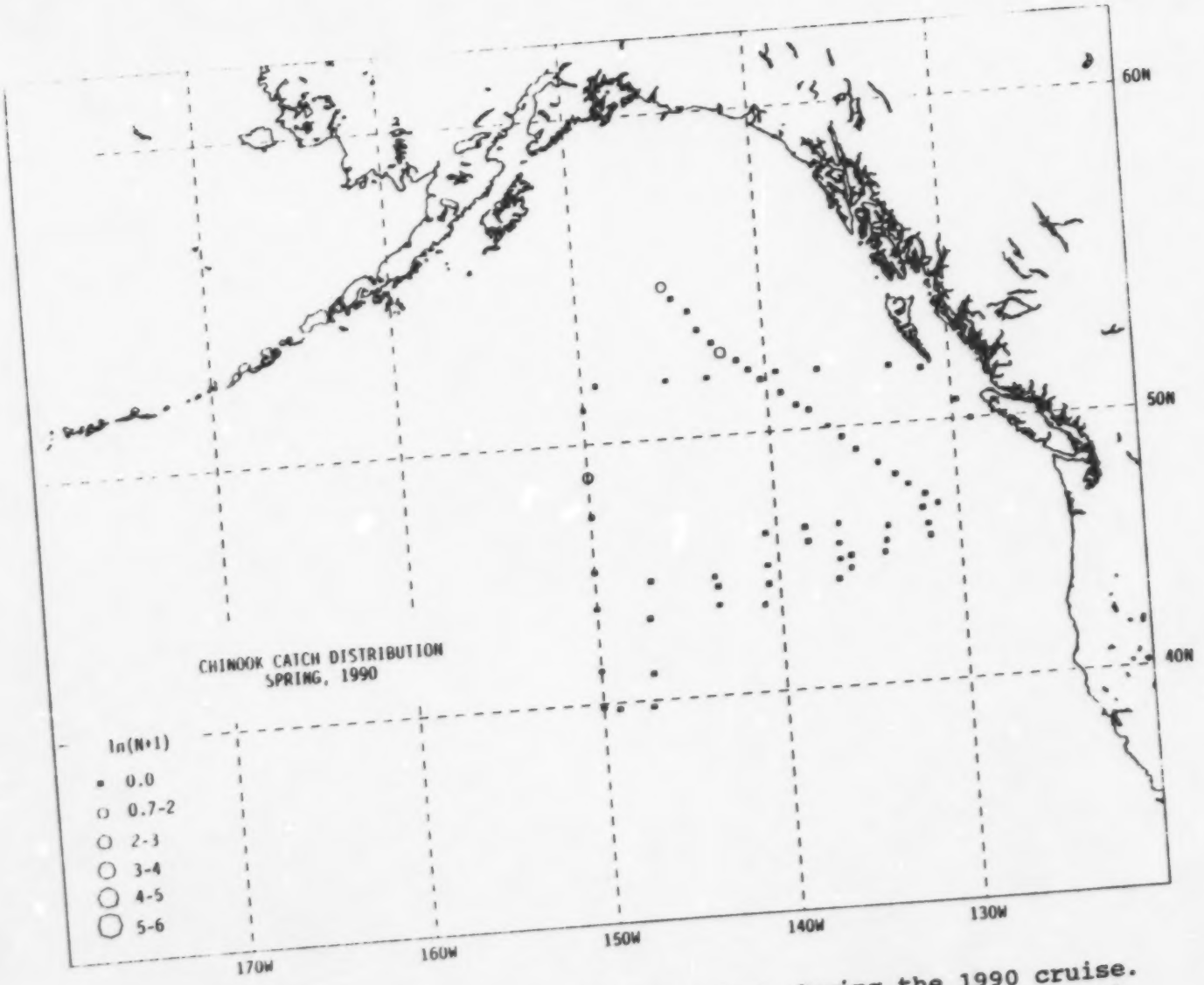


Figure 3e. Distribution of chinook salmon during the 1990 cruise. Catches have been log-transformed with the expression ln(N+1), where N is the number of fish caught at each trawl station.

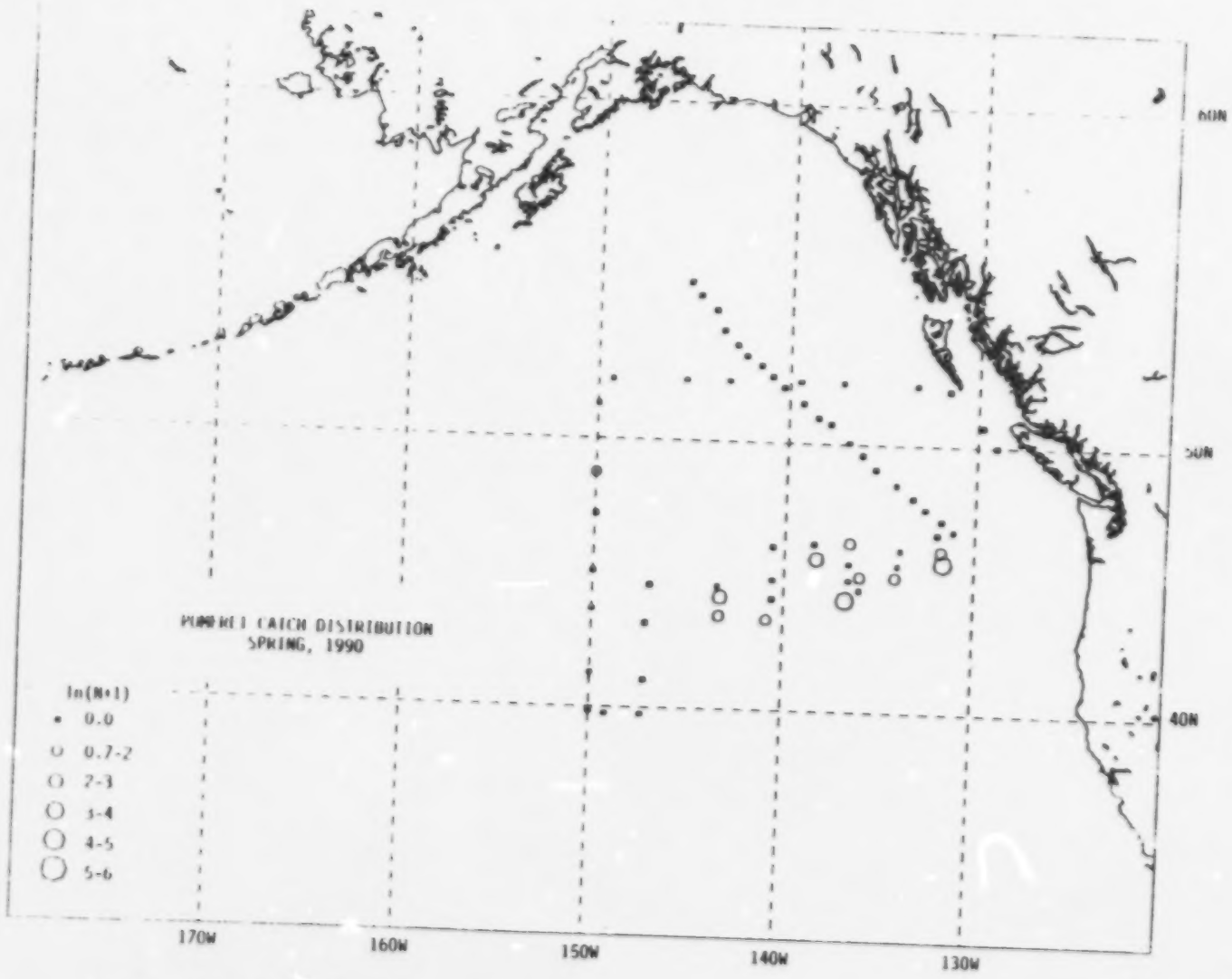


Figure 3f. Distribution of pomfret during the 1990 cruise. Catches have been log-transformed with the expression ln(N+1), where N is the number of fish caught at each trawl station.

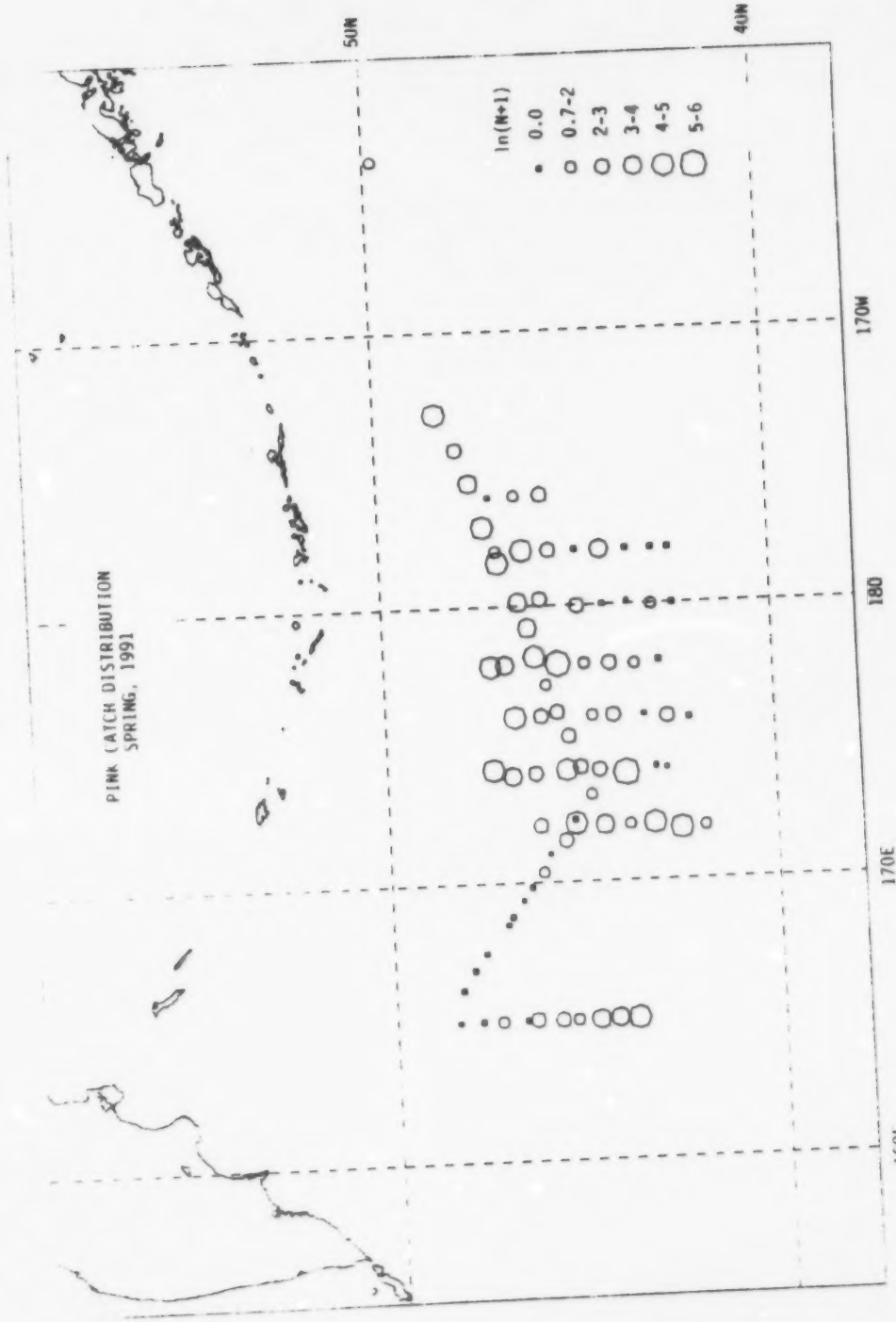


Figure 4a. Distribution of pink salmon during the 1991 cruise. Catches have been log-transformed with the expression ln(N+1), where N is the number of fish caught at each trawl station.

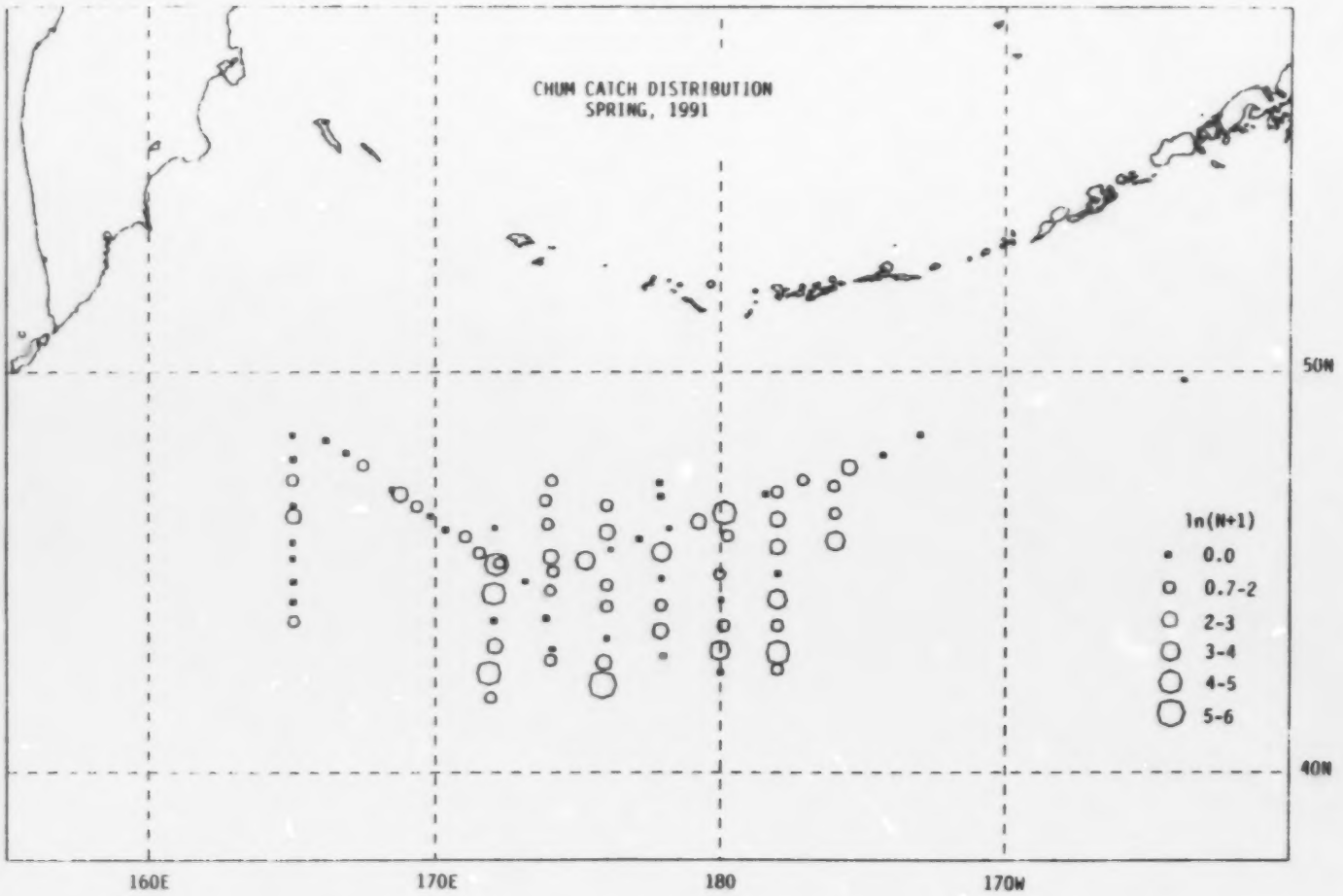


Figure 4b. Distribution of chum salmon during the 1991 cruise. Catches have been log-transformed with the expression ln(N+1), where N is the number of fish caught at each trawl station.

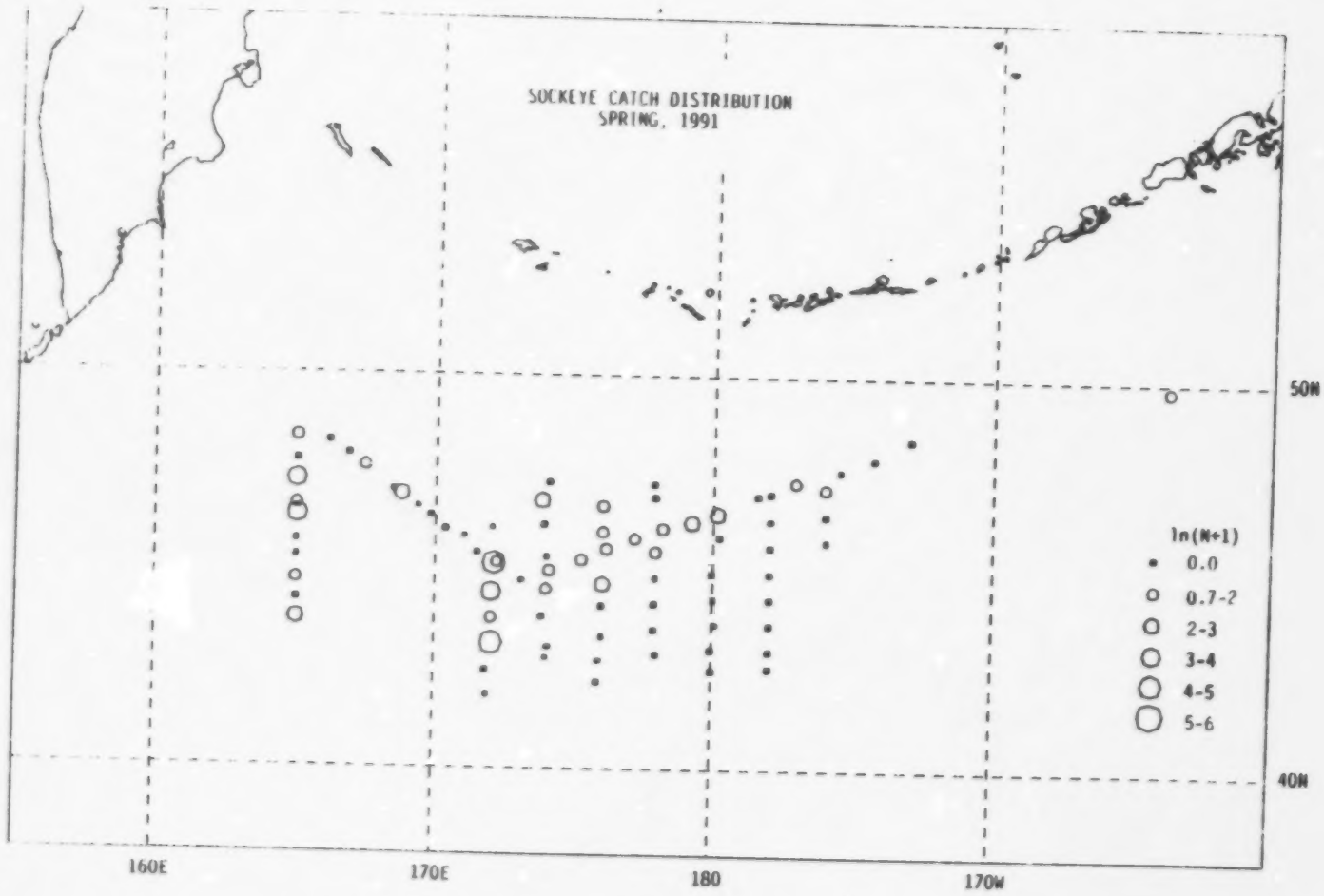


Figure 4c. Distribution of sockeye salmon during the 1991 cruise. Catches have been log-transformed with the expression ln(N+1), where N is the number of fish caught at each trawl station.

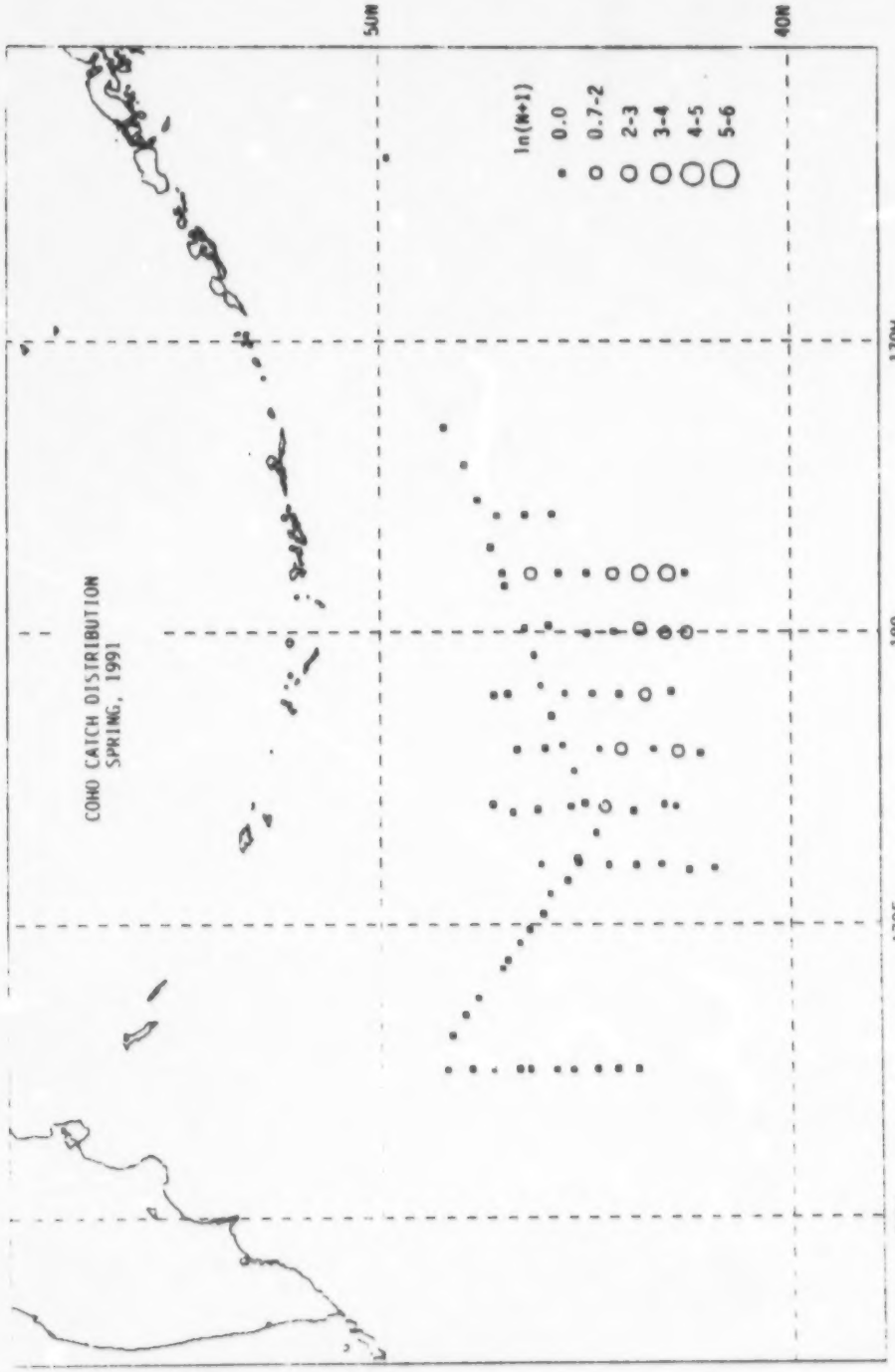


Figure 4d. Distribution of coho salmon during the 1991 cruise. Catches have been log-transformed with the expression ln(N+1), where N is the number of fish caught at each trawl station.

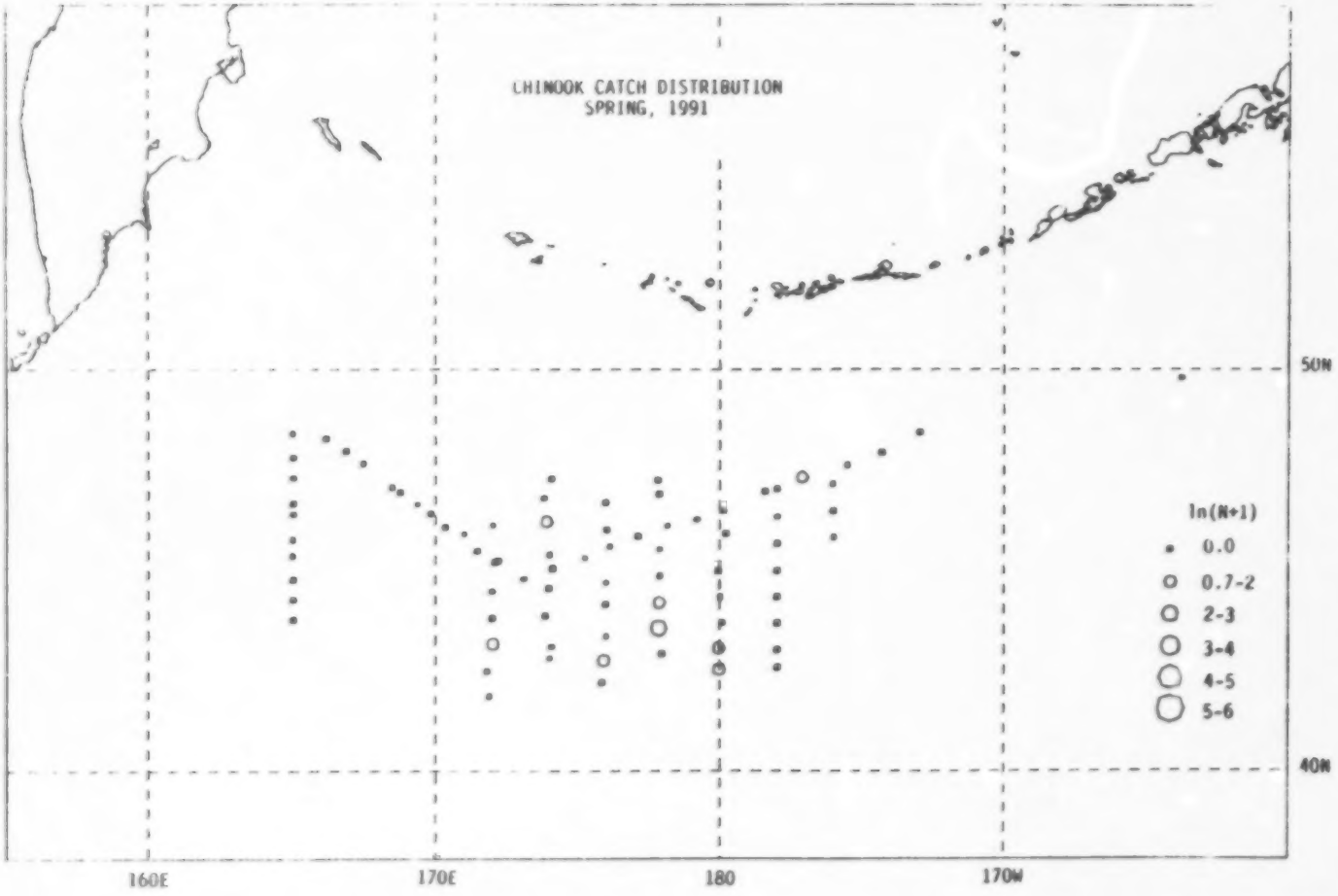


Figure 4e. Distribution of chinook salmon during the 1991 cruise. Catches have been log-transformed with the expression ln(N+1), where N is the number of fish caught at each trawl station.

Fig. 5a

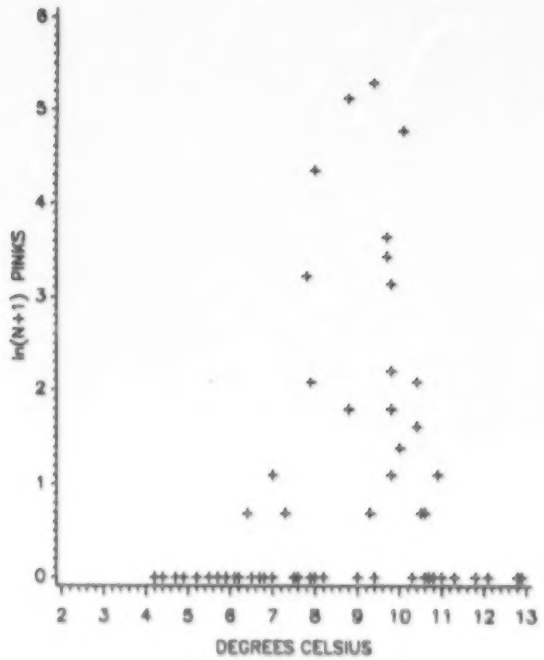


Fig. 5b

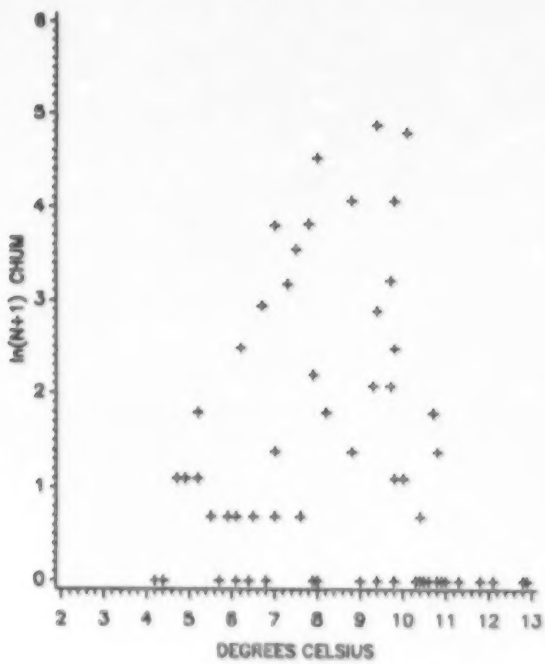
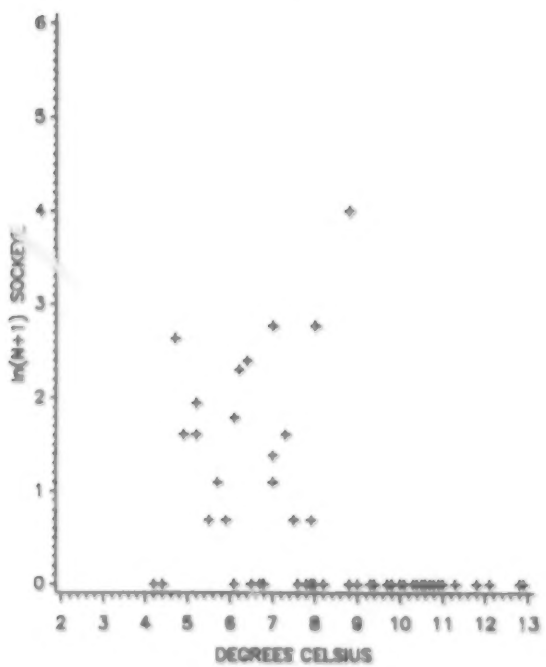


Fig. 5c



Figures 5a-c. Scatter plots of pink, chum and sockeye salmon catches versus temperature for the 1990 cruise.

Fig. 6a

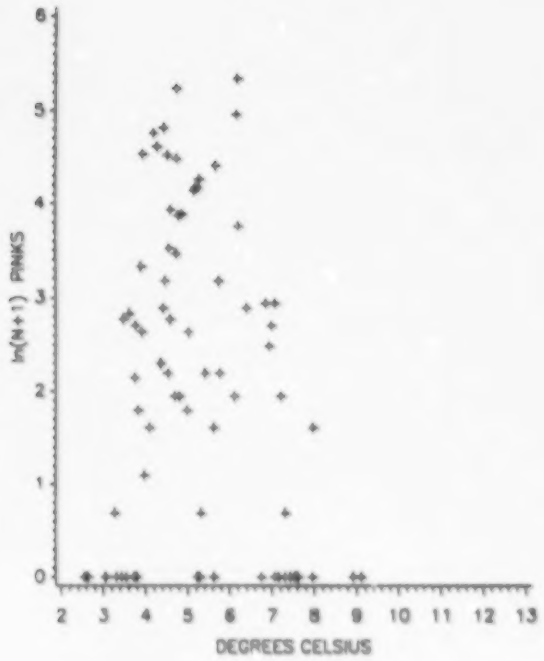


Fig. 6b

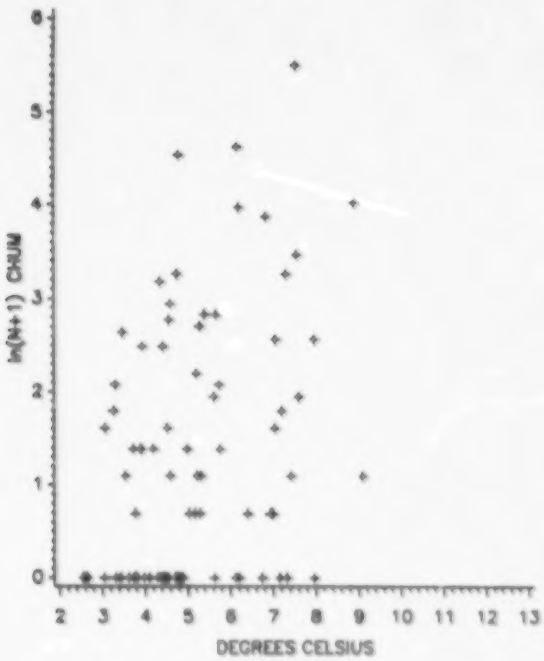
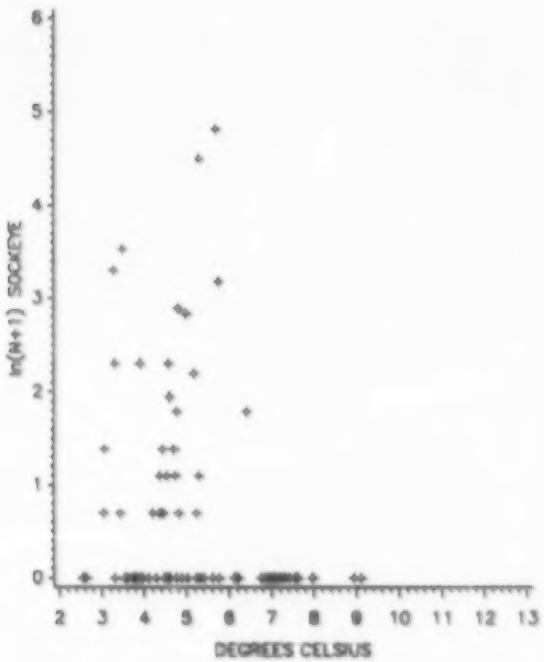


Fig. 6c



Figures 6a-c. Scatter plots of pink, chum and sockeye salmon catches versus temperature for the 1991 cruise.

Fig. 7a

PINK N = 605

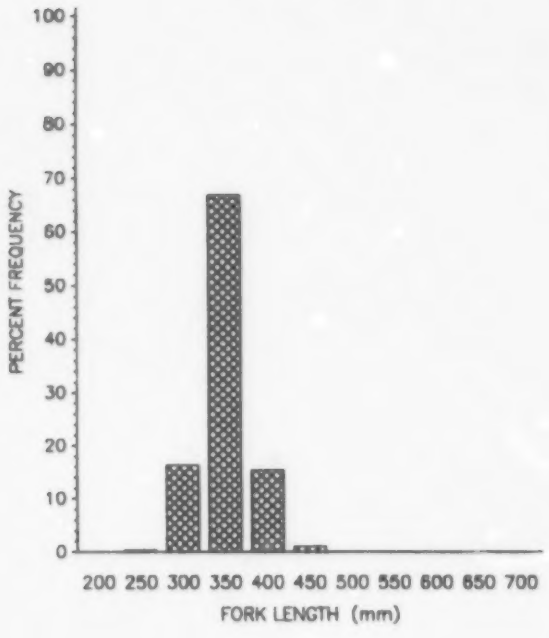


Fig. 7b

CHUM N = 749

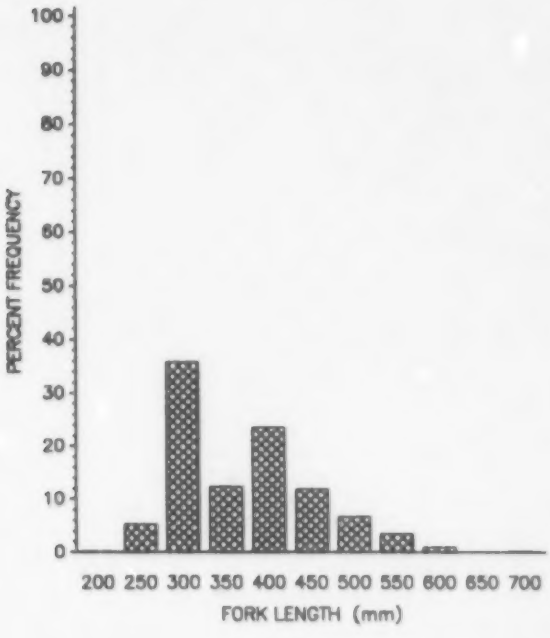


Fig. 7c

SOCKEYE N = 150

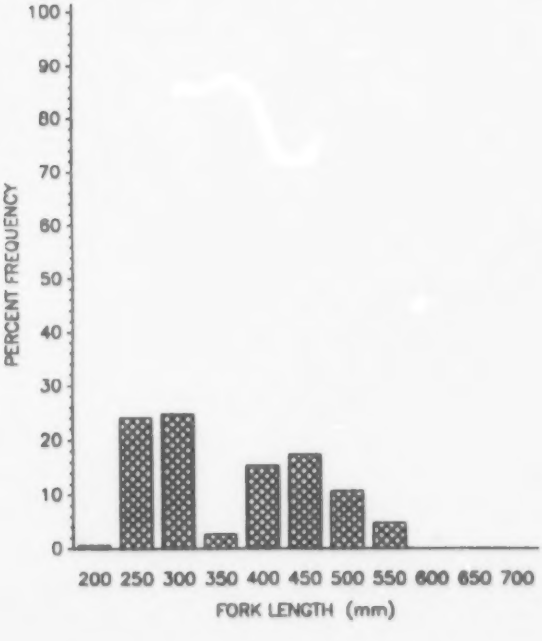
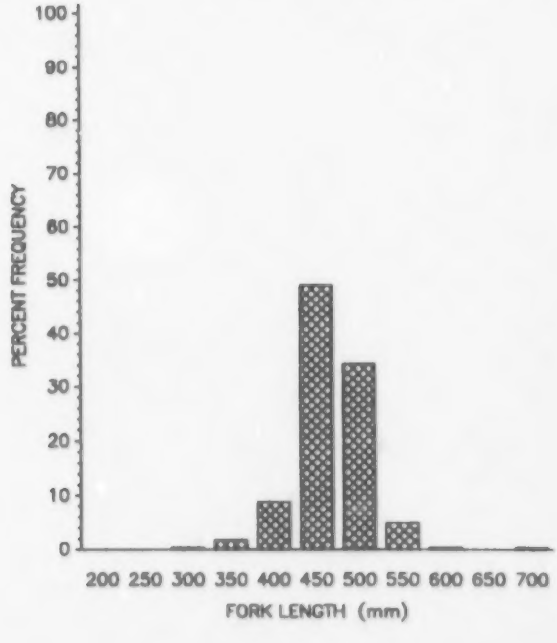


Fig. 7d

COHO N = 283



Figures 7a-d. Size distributions of pink, chum, sockeye, and coho salmon caught during the 1990 cruise.

Fig. 8a

PINK N = 2177

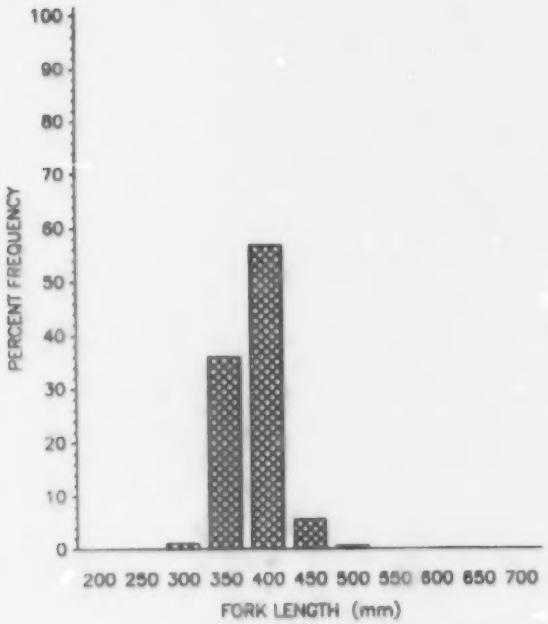


Fig. 8b

CHUM N = 912

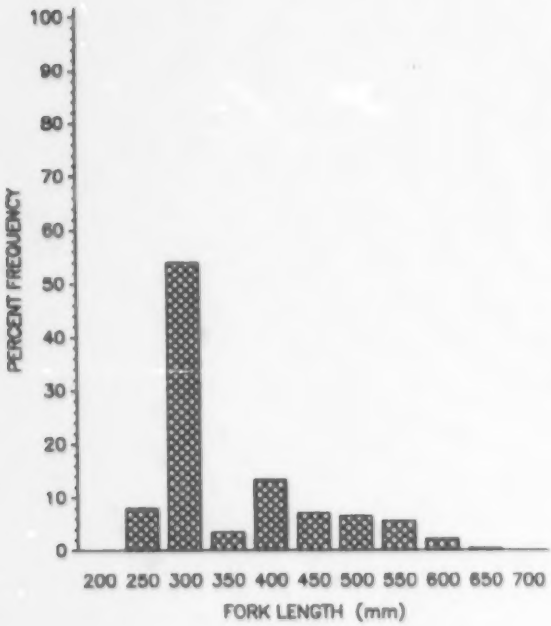
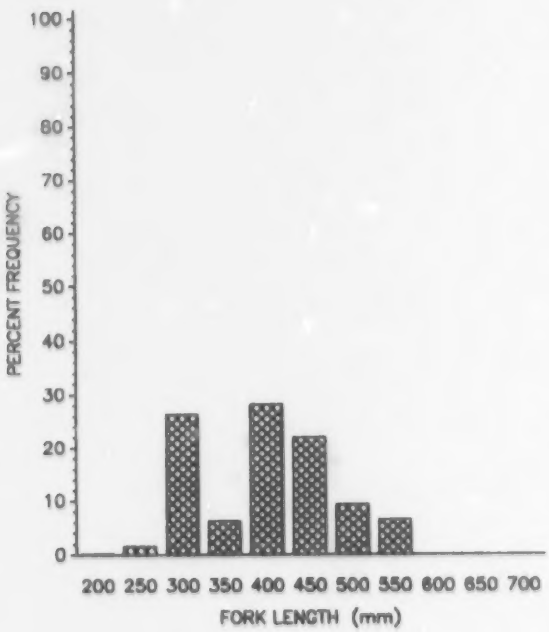


Fig. 8c

SOCKEYE N = 402



Figures 8a-c. Size distributions of pink, chum, and sockeye salmon caught during the 1991 cruise.